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<120> Nucleic Acid Molecules And Other Molecules Associated With The  
Sucrose Pathway

<130> 38-21(15089)B

<140> 09/237,183

<141> 1999-01-26

<150> US 60/067,000

<151> 1997-11-24

<160> 2814

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cactcgaata atctatggag gctctgttca aggataagaa gccagtcaag gtcatacaaga 180
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<212> DNA

<213> Zea mays

<400> 2

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ttgcagcctg atgagccctg tctgttagaa ataagtagtc atctgtgttt caacctcacc 120
tgccacgccg taaagcctgt aggaggtgat ccgtgtgatg gtgtgccgtc accttctgc 180
ctttgctgat ttgcaacacc acggaaacag aaaataacgc aagatgtcac attttttttg 240
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 aaaacttttg aagtatgttt tgagcagatg aaggcttttg cagatagtat ttcgcactgg 180  
 gccgatgttg tgattgcata tgagcctgtt tgggctattg gaatcggtaa ag 232

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<400> 4

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 gaacaaagga ctccattagc aaacttgtct ctgaattgaa tgctgctacc cttgaaactg 120  
 atgtagatgt tgtgggtggca cctccattca tctatattgt tcagggttaag aattcactaa 180  
 ctggtcgcat tgaggtttct gtcagaatg tgtggattgg aaaaggagga gcctacaccg 240  
 gagagatcag tgcagaacaa ctggtggaca tcggctgtca atggggtt 287

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<400> 5

gaaatccaat ctagaagctc ccctctccct ccctccctct ctctctctct cttcgccgtc 60  
 cgaagctccg cacccaatct aatcgacacc tcaccgagat gggccgcaa 109

<210> 6  
 <211> 239  
 <212> DNA  
 <213> Zea mays

<400> 6

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 gtggcaactg gaaatgcaat ggaaccacag atcaggtcga gaagattgtc aaaaccctga 180  
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 <222> (1)..(258)  
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 catggtgacg acatctgagc gcagagctct gttgggtgaa tcagtgatgt gctgctgata 180  
 cagttcatat gcactcactc acgtctcagg taatgctgca tcgtagacct tgacagaaga 240  
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<210> 8  
 <211> 98  
 <212> DNA  
 <213> Zea mays

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 <211> 253  
 <212> DNA  
 <213> Zea mays

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ccaagcgtga cccgtccacc gaagtcgtca tcgccccctcc cgccatctat ctgcgcgtca 180  
cccgcgcaact tgccgacccc tcagtcggtg tctcgggcca gaacgtctat gacaagccta 240  
gcggtgctta tac 253

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<211> 290  
<212> DNA  
<213> Zea mays

<400> 10

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tgaatccagt gattttgttg ctgataaagt tgcataatgca ctactcaag gtctcaaggt 120  
aattgcttgc attggtgaga cccttgagca gagagaggca ggaacaacaa tggatgttgt 180  
tgctgcacaa acaaaggcta ttgctgaaaa aatatcagat tggacaaata ttgtgttggc 240  
atatgaacca gtttgggcta ttggtaccgg caaagttgca actcctgctc 290

<210> 11  
<211> 256  
<212> DNA  
<213> Zea mays

<400> 11

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tggtgctgca caaacaagg ctattgctga aaaaatatca gattggacaa atattgtgtt 180  
ggcatatgaa ccagtttggg ctattggtac cggcaaagtt gcaattccgg ttcaggctca 240  
ggaggtccat gatggc 256

<210> 12  
<211> 163  
<212> DNA  
<213> Zea mays

<400> 12

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 tcatccacag aaccttggtg ggtagcctag cctccctggt acccctacgc ttaccatata 120  
 ctgagtggcg tcccttttgc ttggcgcat gtgcccttct tgc 163

<210> 13  
 <211> 310  
 <212> DNA  
 <213> Zea mays

<400> 13

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 cactggtgaa gtcagtgtg agatgctcgt caaccttggt gttccctggg tcattcttgg 120  
 acactctgaa aggagagctc tgctgggaga atcaaataaa tttgttgagg acaagggttg 180  
 gtatgccctg tctcaggac taaaggcat tgcattgtgt ggtgagacc ttgagcagag 240  
 ggaggctggg tctaccatgg atgttggtgc tgcacaaaca aaagcaattg ctgagaagat 300  
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<210> 14  
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 <212> DNA  
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<400> 14

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 ggagggtgctt tcaactggta agtcagtgt gagatgctcg tcaaccttgg tgttccctgg 120  
 gtcattcttg gacactctga aaggagagct ctgctgggag aatcaaata atttgttgga 180  
 gacaagggtg cgtatgccct gtctcaggga ctaaagggtc ttgcatgtgt tggtagagacc 240  
 cttgagcaga gggaggctgg gtctaccatg gatgttggtg ctgcacaaac aaaagca 297

<210> 15  
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 <212> DNA  
 <213> Zea mays

<220>  
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<223>        unsure at all n locations

<400>        15

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agggactaaa ggtcattgca tgtgttggtg agacacttga gcagaggag gctgggtcta  120
ccatggaggt tgttctgca caaacaaaag caattgctga gaagatcaag gactggagca  180
acgtagttgt tgcctatgaa ccagtttggg ctattggaac tggtaaagtt gccacccag  240
ctcaggctca ggaagtgcac gcctccctga gggattggct anagaccaac gtcagccctg  300
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<210>        16

<211>        321

<212>        DNA

<213>        Zea mays

<400>        16

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gggattggct aaagaccaat gccagccctg aggttgcctga atctactagg atcatctacg  120
gaggctctgt aactgctgcg aactgcaaag agctagcagc acagcctgat gtcgatggtt  180
ttcttgtcgg tggagcttct ttgaagcctg agttcatcga catcatcaac gcggccaccg  240
tgaagtccgc ttaagatgct acgctgaaga cgaacatact ttttttttgc tcaactgtgc  300
tatgtaagct agtagctttt g                                           321
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<210>        17

<211>        285

<212>        DNA

<213>        Zea mays

<400>        17

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cacctgaag tccgcttaag atgctacgct gaagacgaac atactttttt tttgctcaac  180
tgtgctatgt aagctagtag cttttgcgca ggagcagaga ctgttttgcc tgcccccaac  240
ttctagcttg agcttgctaa taatgtttac ctctggacgt atcaa                     285
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<210> 18  
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 <212> DNA  
 <213> Zea mays  
  
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 atctaatacga cacctcacccg agatggggccg caagttcttc gtcggtggca actggaaatg 120  
 caatggaacc acagatcagg tcgagaagat tgtcaaaacc ctgaatgaag gacagggtcc 180  
 cccttcagat gttgtggagg tcgttgtcag ccctccttat gtcttccttc ctgtggtcaa 240  
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 tgctttcact ggtgaagtca gtgctgagat gctcgtca 338

<210> 19  
 <211> 298  
 <212> DNA  
 <213> Zea mays  
  
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 gccctgtctc agggactaaa ggtcattgca tgtgttggtg agacccttga gcagaggagg 180  
 gctgggtcta ccatggatgt tgttgctgca caaacaaaag caattgctga gaagatcaag 240  
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<210> 20  
 <211> 283  
 <212> DNA  
 <213> Zea mays  
  
 <400> 20  
  
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 aggagagctc tgctgggaga atcaaatgaa tttgttggag acaagggtgc gtatgccctg 120  
 tctcaggggac taaaggatcat tgcattgtgtt ggtgagaccc ttgagcagag ggaggctggg 180  
 tctaccatgg atgttgttgc tgcacaaaca aaagcaattg ctgagaagat caaggactgg 240

agcaacgtag ttgttgcta tgaaccagtt tgggctattg gaa 283

<210> 21  
 <211> 290  
 <212> DNA  
 <213> Zea mays

<400> 21

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 tggaactggt aaagttgcc acccagctca ggctcaggaa gtgcacgcct ccctgaggga 180  
 ttggctaaag accaatgcc gccctgaggt tgctgaatct actaggatca tctacggagg 240  
 ctctgtaact gctgcgaact gcaaagagct agcagcacag cctgatgtcg 290

<210> 22  
 <211> 290  
 <212> DNA  
 <213> Zea mays

<400> 22

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 tctgctggga gaatcaaatg aatttgttg agacaagggt gcgtatgccc tgtctcaggg 180  
 actaaaggtc attgcatgtg ttggtgagac ccttgagcag agggaggctg ggtctacat 240  
 ggatgttggt gctgcacaaa caaaagcaat tgctgagaag atcaaggact 290

<210> 23  
 <211> 276  
 <212> DNA  
 <213> Zea mays

<400> 23

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 cagagggagg ctgggtctac catggatgtt gttgctgcac aaacaaaagc aattgctgag 180  
 aagatcaagg actggagcaa cgtagttgtt gcctatgaac cagtttgggc tattggaact 240

ggtaaagttg ccaccccagc tcaggctcag gaagtg 276

<210> 24  
 <211> 316  
 <212> DNA  
 <213> Zea mays

<400> 24

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 ggactggagc aacgtagttg ttgcctatga accagtttgg gctattggaa ctggtaaagt 120  
 tgccacccca gctcaggctc aggaagtgca cgcctccctg agggattggc taaagaccaa 180  
 tgccagccct gaggttgctg aatctactag gatcatctac ggaggctctg taactgctgc 240  
 gaactgcaaa gagctagcag cacagcctga tgcgatggg tttcttgctg gtggagcttc 300  
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<210> 25  
 <211> 313  
 <212> DNA  
 <213> Zea mays

<220>  
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 <222> (1)..(313)  
 <223> unsure at all n locations

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 tgcgatggg tttcttgctg gtggagcttc tttgaagcct gagttcatcg acatcatcaa 180  
 cgcggccacc gtgaagtccg cttaatgatgc tacgctgaag acgaacatac tttttttttg 240  
 ctcaactgtg ctatgtaagc tagtagcttt tgcgcaggag cagagactgt tttgctgcc 300  
 cnaacttcta gct 313

<210> 26  
 <211> 277  
 <212> DNA  
 <213> Zea mays

<400> 26

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atgctcgtca accttgggtgt tccctgggtc attccttgac actctgaaag gagagctctg 120  
ctgggagaat caaatgaatt tgttgagac aaggttgcgt atgccctgtc tcagggacta 180  
aaggtcattg catgtgttgg tgagaccctt gagcagaggg aggctgggtc taccatggat 240  
gttggtgctg cacaaacaaa agcaattgct gagaaga 277

<210> 27  
<211> 268  
<212> DNA  
<213> Zea mays

<400> 27

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ccatggaggt tgttgctgca caaacaaaag caattgctga gaagatcaag gactggagca 120  
acgtattggt gcctatgaac cagtttgggc tattggaact ggtaaagttg ccaccccagc 180  
tcaggctcag gaagtgcacg cctccctgag ggattggcta aagaccaacg tcagccctga 240  
ggttgctgaa tctactagga tcatttac 268

<210> 28  
<211> 307  
<212> DNA  
<213> Zea mays

<400> 28

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tcattgcatg tgttggtgag acccttgagg agagggaggc tggttcaacc atggatgttg 120  
ttgctgcaca aacaaaagca attgctgaga agatcaagga ctggagcaac gttgttcttg 180  
cctatgaacc agtctgggct attggaactg gcaaagtcgc caccacagct caggctcagg 240  
aagtgcacgc ctcctgagg gattgggtaa agatcaatgt cagccctgag gtctctgaat 300  
ctacaag 307

<210> 29  
<211> 285  
<212> DNA  
<213> Zea mays



<400> 29

ggacactctg aaaggagagc tctgctggga gaatcaaagtg aatttggttg agacaagggt 60

gcgtatgccc tgtctcaggg actaaaggtc attgcatgtg ttggtgagac ccttgagcag 120

agggaggctg ggtctaccat ggatgttggt cgtgcacaaa caaaagcaat tgctgagaag 180

atcaaggact ggagcaacgt agttgttgcc tatgaaccag tttgggctat tggaactggg 240

aaagttgccca cccagctca ggctcaggaa gtgcacgcct ccctg 285

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<212> DNA

<213> Zea mays

<400> 30

aaaggtcatt gcatgtgttg gtgagaccct tgagcagagg gaggtgggt ctaccatgga 60

tgttggtgct gcacaaacaa aagcaattgc tgagaagatc aaggactgga gcaacgtagt 120

tgttgccctat gaaccagttt gggctatttg aactggtaaa gttgccaccc cagctcaggc 180

tcaggaagtg cacgcctccc tgagggttg gctaaagacc aatgccagcc ctgagggttg 240

tgaatctact aggatcatct acggaggctc tgtaactgct gcgaactgca aagagctagc 300

agcacagcct gatgtcgatg gttttcttgt cggtgga 337

<210> 31

<211> 302

<212> DNA

<213> Zea mays

<220>

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<222> (1)..(302)

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<400> 31

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gaatgaagga caggttcccc cttcagatgt tgtggaggtc gttgtcagcc ctccttatgt 180

cttccttcct gtggtcaaga gccagctgcg ccaagagttc catgttgctg ctcagaactg 240

ctgggtgaag aaggaggtg ctttctactg tgaagtcagt gctgagatgc tctgcaacct 300  
tg 302

<210> 32  
<211> 256  
<212> DNA  
<213> Zea mays

<400> 32

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ttggacactc tgaaaggaga gctctgctgg gagaatcaaa tgaatttggt ggagacaagg 180  
ttgcgtatgc cctgtctcag ggactaaagg tcattgcatg tgttggtgag acccttgagc 240  
agagggaggc tgggtc 256

<210> 33  
<211> 268  
<212> DNA  
<213> Zea mays

<400> 33

cccacgcgtc cgggtgttggg gagacccttg agcagagggg ggctgggtct accatggatg 60  
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ttgcctatga accagtttgg gctattggaa ctggtaaagt tgccacccca gctcaggctc 180  
aggaagtgca cgctccctg agggattggc taaagaccaa tgccagccct gaggttgctg 240  
aatctactag gatcatctac ggaggctc 268

<210> 34  
<211> 254  
<212> DNA  
<213> Zea mays

<400> 34

ccatgttgct gctcagaact gctgggtgaa gaaggaggt gctttctactg gtgaagtcag 60  
tgctgagatg ctcgcaacc ttgggtgtcc ctgggtcatt cttggacact ctgaaaggag 120  
agctctgctg ggagaatcaa atgaatttgt tggagacaag gttgcgtatg ccctgtctca 180

gggactaaag gtcattgcat gtgttggtga gacccttgag cagagggagg ctgggtctac 240  
catggatggt gttg 254

<210> 35  
<211> 341  
<212> DNA  
<213> Zea mays

<400> 35

cgccgtccga agctccgcac cccaatctaa tcgacacctc accgagatgg gccgcaagtt 60  
cttcgtcggg ggcaactgga aatgcaatgg aaccacagat caggtcgaga agattgtcaa 120  
aaccctgaat gaaggacagg ttcccccttc agatgttggt gaggtcgttg tcagccctcc 180  
ttatgtcttc cttcctgtgg tcaagagcca gctgcgccaa gagttccatg ttgctgctca 240  
gaactgctgg gtgaagaagg gaggtgcttt cactgggtgaa gtcagtgtg agatgctcgt 300  
caaccttggt gttccctggg tcattcttga cactctgaaa g 341

<210> 36  
<211> 251  
<212> DNA  
<213> Zea mays

<400> 36

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cttcttttgaa gcctgagttc atcgacatca tcaacgcggc caccgtgaag tccgcttaag 120  
atgctacgct gaagacgaac atactttttt tttgctcaac tgtgctatgt aagctagtag 180  
cttttgcgca ggagcagaga ctgttttgcc tgcccccaac ttctagcttg agcttgctaa 240  
taatgtttac c 251

<210> 37  
<211> 246  
<212> DNA  
<213> Zea mays

<400> 37

tggctattgg aactggtaaa gttgccaccc cagctcaggc tcaggaagtg caccctccc 60  
tgagggattg gctaaagacc aatgccagcc ctgaggttgc tgaatctact aggatcatct 120

acggaggctc tgtaactgct gcgaactgca aagagctagc agcacagcct gatgtcgatg 180  
gtttttcttgt cggtggagct tctttgaagc ctgagttcat cgacatcatc aacgcggcca 240  
ccgtga 246

<210> 38  
<211> 270  
<212> DNA  
<213> Zea mays

<400> 38

ggtgaagtca gtgctgagat gctcgtcaac cttggtgttc cctgggtcat tcttggacac 60  
tctgaaagga gagctctgct gggagaatca aatgaatttg ttggagacaa ggttgcgtat 120  
gccctgtctc agggactaaa ggtcattgca tgtgttggtg agacccttga gcagagggag 180  
gctgggtcta ccatggatgt tgttctgca caaacaaaag caattgctga gaagatcagg 240  
actggagcac gtattgttgc ctatgaacca 270

<210> 39  
<211> 277  
<212> DNA  
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<400> 39

cgcagatcag gttgagaaga ttgtcaaac cctgaatgaa ggaaatgttc cctcttcaga 60  
tggtgttgag gttgttgtca gtccctctta tgtgttcctc ccggtgggtca agagccagct 120  
gcgtcaagag ttccaagttg ctgctcagaa ctgctgggtg aagaaggag gtgcattcac 180  
tggtgaaatt agtgctgaga tgctcgtcaa ccttggcggt ccttgggtca ttcttggaca 240  
ctctgaaagg agagctctgc tgggagaatc aaatgag 277

<210> 40  
<211> 261  
<212> DNA  
<213> Zea mays

<400> 40

cccacgcgtc cggaactgct ggggtgaagaa gggaggtgct ttcactggtg aagtcagtgc 60  
tgagatgctc gtcaaccttg gtgttccttg ggtcattctt ggacactctg aaaggagagc 120

tctgctggga gaatcaaata aatttggttg agacaagggt gcgtatgcc tgtctcagg 180  
actaaaggct attgcatgtg ttggtgagac ccttgagcag agggaggctg ggtctaccat 240  
ggatggtgtt gctgcacaaa c 261

<210> 41  
<211> 276  
<212> DNA  
<213> Zea mays

<400> 41

tgaagggagg tgcattcacc ggtgaaatta gtgctgagat gctcgtcaac cttggcgctt 60  
cctgggtcat tcttgacac tctgaaagga gagctctgct gggagaatca aatgagtttg 120  
ttggagacaa ggttgctttt gctctgtctc agggactaaa ggtcattgca tgtggttggtg 180  
agacccttga ggagaggagg gctggttcaa ccatggatgt tgttgctgca caaacaaaag 240  
caattgctga gaagatcaag gactggagca acgttg 276

<210> 42  
<211> 326  
<212> DNA  
<213> Zea mays

<400> 42

ccaatctaga agcacacctc tccctctctc tctcttcgcc gtccgaagct ccgcacccca 60  
atctaatacga cacctcaccg agatgggccg caagtctgct gtcggtggca actggaaatg 120  
caatggaacc acagatcagg tcgagaagat tgtcaaaacc ctgaatgaag gacaggttcc 180  
cccttcaatg ttgtggaggt cgttgctcgc cctccttatg tcttccttcc tgtgggtcaag 240  
agccagctgc gccaaagagt ccatggtgct gctcagaact gctgggtgaa gaagggatgt 300  
gctttcactg gtgaagtcac gctgag 326

<210> 43  
<211> 244  
<212> DNA  
<213> Zea mays

<400> 43

aactgcaaag agctagcagc acagcctgat gtcgatgggt ttctgtcgg tggagcttct 60

ttgaagcctg agttcatcga catcatcaac gcggccaccg tgaagtcgc ttaagatgct 120  
acgctgaaga cgaacatact ttttttttgc tcaactgtgc tatgtaagct agtagctttt 180  
gcgcaggagc agagactggt ttgcctgccc ccaacttcta gcttgagctt gctaataatg 240  
ttta 244

<210> 44  
<211> 258  
<212> DNA  
<213> Zea mays

<400> 44

cccacgcgtc cgatgcaatg gaaccacaga tcaggtcgag aagattgtca aaaccctgaa 60  
tgaaggacag gttccccctt cagatgttgt cgaggtcggt gtcagccctc cttatgtctt 120  
ccttcctgtg gtcaagagcc agctgcgcca agagttccat gttgctgctc agaactgctg 180  
ggtgaagaag ggaggtgctt tcaactggga agtcagtgtc gagatgctcg tcaaccttgg 240  
tgttccctgg gtcattct 258

<210> 45  
<211> 265  
<212> DNA  
<213> Zea mays

<400> 45

gaagctccgc acccaatcta atcgacacct caccgagatg ggccgcaagt tcttcgtcgg 60  
tggcaactgg aatgcaatg gaaccacaga tcaggtcgag aagattgtca aaaccctgaa 120  
tgaaggacag gttccccctt acaatgttgt tgaggtcggt gtcagccctc cttatgtctt 180  
ccttcctgtg gtcaagagcc agctgcgcca agagttccat gttgctgctc agaactgctg 240  
ggtgaagaag ggaggtgctt tcaact 265

<210> 46  
<211> 336  
<212> DNA  
<213> Zea mays

<400> 46

aaggttgctg atgcctgtc tcagggacta aaggtcattg catgtgttgg tgagaccctt 60

gagcagaggg aggctgggtc taccatggat gttgttgctg cacaacaaa agcaattgct 120  
gagaagatca aggactggag caacgtagtt gttgcctatg aaccagtttg ggctattgga 180  
actggtaaag ttgccacccc agctcaggct caggaagtgc acgcctccct gagggattgg 240  
ctaaagacca atgccagccc tgaggttgct gaatctacta ggatcatcta cggaggctct 300  
gtaactgctg cgaactgcaa agagctagca gcacag 336

<210> 47  
<211> 349  
<212> DNA  
<213> Zea mays

<400> 47

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ccgagatggg ccgcaagttc ttcgtcgggt gcaactggaa atgcaatgga accacagatc 120  
aggctcgagaa gattgtcaaa accctgaatg aaggacaggt tcccccttca gatgttggtg 180  
aggctggttg cagccctcct tatgtcttcc ttcctgtggt caagagccag ctgcgccaag 240  
agttccatgt tgctgctcag aactgctggg tgaagaaggg aggtgctttc actggtgaag 300  
tcagtgtgta gatgctcgtc aaccttggtg ttcctgggtg cattcttgg 349

<210> 48  
<211> 317  
<212> DNA  
<213> Zea mays

<400> 48

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ggaaacgcaa tggaaccgca gaccaggttg agaagatcgt caaaaccctg aatgaaggaa 120  
atgctccctc ttcagacgtc gtcgaggttg ttgtcagtc tctcatgtg ttcctcccgg 180  
tggtcaagag ccagctgcgc caagagttcc aagtcgctgc tcagaactgc tgggtgaaga 240  
agggaggtgc attcactggt gaaaccagtg ctgagatgct cgtcaacctt ggcgtctccc 300  
tgggtcactc ttggaca 317

<210> 49  
<211> 263  
<212> DNA

<213> Zea mays

<400> 49

ggaaatgcaa tggaaccgca gatcagggtg agaagattgt caaaaccctg aatgaaggaa 60

atgttccctc ttcagatggt gttgagggtg ttgtcagtcc tccttatgtg ttcctcccg 120

tggtcaagag ccagctgcgc caagagttcc aagttgctgc tcagaactgc tgggtgaaga 180

agggaggtgc attcactggt gaaattagtg ctgagatgct cgtcaacctt ggcgttccct 240

gggtcattct tggacactct gaa 263

<210> 50

<211> 227

<212> DNA

<213> Zea mays

<400> 50

ctttgaagcc tgagttcatc gacatcatca acgcggccac cgtgaagtcc gcttaagatg 60

ctacgctgaa gacgaacata cttttttttt gctcaactgt gctatgtaag ctagtagctt 120

ttgcgcagga gcagagactg ttttgccctgc ccccaacttc tagcttgagc ttgctaataa 180

tgtttacctc tggacgtatc aataatggtg cttatgtatc ccctttt 227

<210> 51

<211> 300

<212> DNA

<213> Zea mays

<400> 51

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gcctccctga gggattgggt aaagatcaat gtcagccctg aggtctctga atctacaagg 120

atcatctatg gaggttcagt aactgctgcg aactgcaaag agctggcagc acagcctgat 180

gtcgatggtt tccttggtgg cggtgcttct ttgaagcccc agttcatcga catcatcaac 240

gccgccaccg tgtgaagtcc gcttaagatg ttccaaccct tcaccctggt gcggtgatgt 300

<210> 52

<211> 348

<212> DNA

<213> Zea mays



<400> 52

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ctggaaatgc aatggaaccg cagatcaggt tgagtagatt gtcaagacgc tgaatgaagg 120

aaatgttccc tcttcagatg ttgttgaggt tgtggtcagt cctccttatg tgttcctccc 180

ggtgggtcaag agccagctgc tccaagagtt ctaagttgct gctcagaact gctgggtgaa 240

gaagggaggt gcattcactg gtgaaattag tgctgagatg ctcgtaacc ttggcggtcc 300

ctgggtcatt cttggacact ctgaaaggag agctctgtct gggagaat 348

<210> 53

<211> 264

<212> DNA

<213> Zea mays

<220>

<221> unsure

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<223> unsure at all n locations

<400> 53

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nagcaattgc tgagaagatc aaggactgga gcaacgtagt tgttgctat gaaccagttt 120

gggctattgg aactggtaaa gttgccaccc cagctcaggc tcaggaagtg cacgcctccc 180

tgagggattg gctaaagacc aatgccagcc ctgggggttg tnanctata ggntcntcta 240

nggggcttta aaaantgctg ggaa 264

<210> 54

<211> 225

<212> DNA

<213> Zea mays

<400> 54

gttcttcgtc ggtggcaact ggaaatgcaa tggaaccaca gatcaggtcg agaagattgt 60

caaaaccctg aatgaaggac aggttcccc ttcagatgtt gtcgaggtcg ttgtcagccc 120

tccttatgtc ttccttctg tggtaagag ccagctgcgc caagagttcc atgttgctgc 180

tcagaactgc tgggtgaaga agggaggtgc tttcactggt gaagt 225

<210> 55  
 <211> 278  
 <212> DNA  
 <213> Zea mays  
  
 <220>  
 <221> unsure  
 <222> (1)..(278)  
 <223> unsure at all n locations  
  
 <400> 55  
  
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 tgtgagtttg ttggagacaa ggtttgtntt gctctgtctc agggactaaa ggtcattgca 120  
 tgtgttggtg agacccttga gtttagggag gctgggtcaa ccatggatgt tgttgctgca 180  
 caaacaaaag caattgctga gaagatcaag gactggagca acgttgttct tgcctatgaa 240  
 ccagtctggg ctattggaac tggcaaagtc gccaccca 278

<210> 56  
 <211> 317  
 <212> DNA  
 <213> Zea mays  
  
 <400> 56  
  
 gcccctcctc ctctccccc tccgtaccca atctaatacga caccggccg agatgggccc 60  
 caagttcttc gttggtggca actggaaatg caatggaacc gcagatcagg ttgagaagat 120  
 tgtcaaaacc ctgaatgaag gaaatgttcc ctcttcagat gttgttgagg tcggtgtcag 180  
 tcctccttat gtgttcctcc cgggtgtcaa gagccagctg cgccaagagt tccaagttgc 240  
 tgctcagaac tgctgggtga agaaggagg tgcattcact ggtgaaatta gtgctgaaat 300  
 gctcgtcaac cttggcg 317

<210> 57  
 <211> 291  
 <212> DNA  
 <213> Zea mays  
  
 <400> 57  
  
 ccgtacccaa tctaatacgac acccggccga gatgggccc aagttcttcg ttggtggcaa 60  
 ctggaaatgc aatggaaccg cagatcaggt tgagaagatt gtcaaaaccc tgaatgaagg 120

aaatgttccc tcttcagatg ttgttgaggt cgttgtcagt cctccttatg tgttcctccc 180  
 ggtggtcaag agccagctgc gccaaagagtt ccaagttgct gtcagaact gctgggtgaa 240  
 gaagggaggt gcattcactg gtgaaattag tgctgaaatg ctcgtaacc t 291

<210> 58  
 <211> 244  
 <212> DNA  
 <213> Zea mays

<400> 58

acggaggctc tgtaactgcc gcgaactgca aagagctagc agcacagcct gatgtcgatg 60  
 ggtttcttgt cgggtggagct tctttgaagc ctgagttcat cgacatcatc aacgcggcca 120  
 ccgtgaagtc cgcttaagat ggtacgcgtg agacgaacat actttttttt tgctcaactg 180  
 tgctatgtaa gctagtagct tttggcgcag gacagagact ttgtttacct cccccaactt 240  
 ttag 244

<210> 59  
 <211> 254  
 <212> DNA  
 <213> Zea mays

<400> 59

ccatccgtac ccaatctaata cgacacccgg ccgagatggg ccgcaagtgc ttcggttggtg 60  
 gcaactggaa atgcaatgga accacagatc aggttgagaa gattgtcaaa accctgaatg 120  
 aaggaaatgt tcctcttcag atgttggtga ggctggtgct agtcctcctt atgtgttctt 180  
 cccggtggtc aagagccagc tgcgccaaaga gttccaagtt gctgctcaga actgctgggt 240  
 gaagaaggga ggtg 254

<210> 60  
 <211> 222  
 <212> DNA  
 <213> Zea mays

<400> 60

tgctcgtaaa ccttggtggt ccctgggtca ttcttggaaca ctctgaaagg agagctctgc 60  
 tgggagaatc aaatgaattt gttggagaca aggttgcgta tgccctgtct cagggactaa 120

aggtcattgc atgtgttggt gagacccttg agcagagggga ggctgggtct accatggatg 180  
 ttgttgctgc acaaacaaaa gcaattgctg agaagatcaa gg 222

<210> 61  
 <211> 263  
 <212> DNA  
 <213> Zea mays

<400> 61

atcgacacct caccgagatg ggccgcaagt tcttcgctcg tggcaactgg aaatgcaatg 60  
 gaaccacaga tcaggtcgag aagattgtca aaaccctgaa tgaaggacag gttccccctt 120  
 cagatgttgt ggaggtcggt gtcagccctc cttatgtctt cttcctgtg gtcaagagcc 180  
 agctgcgcca agagtcccat gttgctgctc agaactgctg ggtgaagaag ggaggtgctt 240  
 tcactggtga agtcagtgtc gag 263

<210> 62  
 <211> 292  
 <212> DNA  
 <213> Zea mays

<400> 62

gaagctccgc acccaatcta atcgacacct caccgagatg ggccgcaagt tcttcgctcg 60  
 tggcaactgg aaatgcaatg gaaccacaga tcaggtcgag aagattgtca aaaccctgaa 120  
 tgaaggacag gttccccctt cagatgttgt tgaggtcggt gtcagccctc ttatgtcttc 180  
 cttcctgtgg tcaagagcca gctgcgccaa gagttccatg ttgctgctca gaactgctgg 240  
 gtgaagaagg gaggtgcttt cactggtgaa gtcagtgtg agatgctcgt ca 292

<210> 63  
 <211> 312  
 <212> DNA  
 <213> Zea mays

<400> 63

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 ccgagatggg ccgcaagtgc ttcgtcggtg gcaactggaa atgcaatgga accacagatc 120  
 aggtcgagaa gattgtcaaa accctgaatg aaggacaggt tcccccttca gatgttggtg 180

aggtcgttgt cagccctcct tatgtcttcc ttcctgtggt caagagccag ctgcgccaag 240  
 agttccatgt tgctgctcag aactgctggg tgaagaagg aggtgctttc actggtgaag 300  
 tcagtgtga ga 312

<210> 64  
 <211> 259  
 <212> DNA  
 <213> Zea mays

<400> 64

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 caatctaatac gacacatcac cgagatgggc cgcaagttca tcgtcggttag caacaggaaa 120  
 tgcaatggaa ccacagatca ggtcgagaag attgtcaaaa cactgaatga aggacaggtt 180  
 ccccatcag atgttggtga ggacgttgtc agcccacctt atgtcttctt tctgtggtc 240  
 aagagccagc agcgccaag 259

<210> 65  
 <211> 295  
 <212> DNA  
 <213> Zea mays

<400> 65

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 gccgcaagtt cttcgttggt ggcaactgga aatgcaatgg aaccgcagat caggttgaga 120  
 agattgtcaa aacctgaat gaaggaaatg ttcctcttc agatgttggt gaggttggtg 180  
 tcagtctctc ttatgtgttc ctcccgttg tcaagagcca gctgcgcaa gagttccaag 240  
 ttgctgtca gaactgctgg gtgaagaagg gaggtgcatt cactggtgaa attag 295

<210> 66  
 <211> 320  
 <212> DNA  
 <213> Zea mays

<400> 66

aatccaatc tagaagcacc cctctccctc tctctctctt cgccgtccga agctccgcac 60  
 cccaatctaa tcgacacctc accgagatgg gccgcaagtt cttcgctcgtt ggcaactgga 120

aatgcaatgg aaccacagat caggctcgaga agattgtcaa aaccctgaat gaaggacagg 180  
 ttcccccttc agatgttggtg gaggtcggtg tcagccctcc ttatgtcttc cttcctgtgg 240  
 tcaagagcca gctgcgcca gagttccatg ttgctgctca gaactgctgg gtgaagaagg 300  
 gaggtgcttt cactggtgaa 320

<210> 67  
 <211> 207  
 <212> DNA  
 <213> Zea mays

<400> 67

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 aagttgccac cccagctcag gctcaggaag tgcacgcctc cctgagggat tggctaaaga 120  
 ccaatgccag ccctgaggtt gctgaatcta ctaggatcat ctacggaggc tctgtaactg 180  
 ctgcgaactg caaagagcta gcagcac 207

<210> 68  
 <211> 265  
 <212> DNA  
 <213> Zea mays

<400> 68

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 gaaccgcaga tcaggttgag aagattgtca aaaccctgaa tgaaggaaat gttccctctt 120  
 cagatgttgt tgaggttggt gtcagtcctc cttatgtttt cctcccgggtg gtcaagagcc 180  
 agctgcgcca agagttccaa gttgctgctc agaactgctg ggtgaagaag ggaggtgcat 240  
 tcactggtga aattagtgtc gagat 265

<210> 69  
 <211> 319  
 <212> DNA  
 <213> Zea mays

<400> 69

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 accccaatct aatcgacacc tcaccgagat gggccgcaag ttactcgtcg gtggcaactg 120

gaaatgcaat ggaaccacag atcaggtcga gaagattgtc aaaaccctga atgaaggaca 180  
 ggttccccct tcagatgttg tggaggtcgt tgtcagccct cttatgtct tccttcctgt 240  
 ggtcaagagc cagctgcgcc aagagttcca tgttgctgct cagaactgct ggggtaagaa 300  
 gggaggtgct ttcactggt 319

<210> 70  
 <211> 316  
 <212> DNA  
 <213> Zea mays

<400> 70

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 gcaactggaa atgcaatgga accacagatc aggtcgagaa gattgtcaaa accctgaatg 180  
 aaggacaggt tcccccttca gatgttgctg aggtcggtgt cagccctcct tatgtcttcc 240  
 ttctgtggt caagagccag ctgcgccaag agttccatgt tgctgctcag aactgctggg 300  
 tgaagaaggg aggtgc 316

<210> 71  
 <211> 276  
 <212> DNA  
 <213> Zea mays

<400> 71

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 tgtcaaaacc ctgaatgaag gacaggttcc cccttcagat gttgtcgagg tcgttgctcag 180  
 ccctccttat gtcttccttc ctgtggtcaa gagccagctg cgccaagagt tccatgttgc 240  
 tgctcagaac tgctgggtga agaaggaggg tgcttt 276

<210> 72  
 <211> 204  
 <212> DNA  
 <213> Zea mays

<400> 72

gaagatcaag gactggagca acgtattgtt gcctatgaac cagtttgggc tattggaact 60  
 ggtaaagttg ccaccccagc tcaggctcag gaagtgcacg cctccctgag ggattggcta 120  
 aagaccaatg ccagccctga ggttgctgaa tctactagga tcatctacgg aggctctgta 180  
 actgctgcga actgcaaaga gcta 204

<210> 73  
 <211> 342  
 <212> DNA  
 <213> Zea mays

<220>  
 <221> unsure  
 <222> (1)..(342)  
 <223> unsure at all n locations

<400> 73

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 acccaatcta atccacacct cagccagatg ngccgcaagt tcttcgtcgg tggcaactgg 120  
 aaatgcaatg gaaccacaga tcaggctcag aagattgtca gaaccctgaa tgaaggacag 180  
 gttccccctt cagatgttgt cgaggctcgtt gtcagccctc cttatgtctt ccttcctgtg 240  
 gtcaagagcc agctgcgcca agagttccat gttgctgctc agaactgctg ggtgaagaat 300  
 ggaggtgctt tcaactggta agcagtgtg agatgctcgt ca 342

<210> 74  
 <211> 313  
 <212> DNA  
 <213> Zea mays

<220>  
 <221> unsure  
 <222> (1)..(313)  
 <223> unsure at all n locations

<400> 74

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 ccgcacccaa tctaactgac acctcaccga gatgggccc aagttcttcg tcggtggcaa 120  
 ctggaaatgc aatggaacca cagatcaggt cgagaagatt gtcaaaaccc tgaatgaagg 180  
 acaggttccc ccttcagatg ttgtcgaggt cgttgtcagc cctccttatg tcttccttcc 240



tgtggtcaag agccagctgc gccaaagatt ccatgttgct gctcagaact gctgggtgaa 300  
gaagggangt gct 313

<210> 75  
<211> 277  
<212> DNA  
<213> Zea mays

<400> 75

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agatggggccg caagttcttc gttggtggca actggaaatg caatggaacc gcagatcagg 120  
ttgagaagat tgtcaaaacc ctgaatgaag gaaatgttcc ctcttcagat gttgttgagg 180  
ttgttgatcag tctccttat gtgttcctcc cgggtggtaa gagccagctg cgccaagagt 240  
tccaagttgc tgctcagaac tgctgggtga agaaggg 277

<210> 76  
<211> 282  
<212> DNA  
<213> Zea mays

<400> 76

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ttgagaagat tgtcaaaacc ctgattgaag gaaatgttcc ctctacagat gttgttgagg 180  
tcgttgatcag tctccttat gtgttcctcc cgggtggtaa gagccagctg cgccaagagt 240  
tccaagttgc tgctcagaac tgctgggtga agaagggagg tg 282

<210> 77  
<211> 313  
<212> DNA  
<213> Zea mays

<400> 77

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ccgagatggg ccgcaagttc ttcgttggtg gcaactggaa atgcaatgga accgcagatc 120  
aggttgagaa gattgtcaaa accctgaatg aaggaaatgt tccctcttca gatgttggtg 180

aggttgttgt cagtcctcct tatgtgttcc tcccgggtgg caagagccag ctgcgccaag 240  
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 <213> Zea mays

<400> 78

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 ggacagggttc ccccttcaga tgttgctgag gtcgttgtca gccctcctta tgtcttcctt 240  
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 aagaagg 307

<210> 79  
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<400> 79

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 tcccccttca gatgttggtg aggtcgttgt cagccctcct tatgtcttcc ttctgtggt 240  
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<210> 80  
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 <212> DNA  
 <213> Zea mays

<400> 80

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gattgtcaaa accctgaatg aaggaaatgt tccctcttca gatgttggtg aggttggtgt 180  
cagtcctcct tatgtgttcc tcccgggtgg caagagccag ctgcgccaag agttccaagt 240  
tgctgctcag aactgctggg tgaaga 266

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<212> DNA  
<213> Zea mays

<400> 81

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<400> 82

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tt 182

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<211> 286  
<212> DNA  
<213> Zea mays

<400> 83

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 ggtgggtcaag agccagctgc gccaaagagtt ccaagttgct gctcagaact gctgggtgaa 240  
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 <213> Zea mays  
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 gacaggttcc cccttcagat gttgtcagag tcgttgtcag cctccttat gtcttcttc 240  
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<210> 85  
 <211> 277  
 <212> DNA  
 <213> Zea mays  
 <400> 85

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<210> 86  
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 <213> Zea mays  
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 cccttcagat gttgttgagg tcgttgtcag ccctccttat gtcttccttc ctgtggtcaa 240  
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<210> 87  
 <211> 272  
 <212> DNA  
 <213> Zea mays

<400> 87

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 ttgagaagat tgtcaaaacc ctgaatgaag gaaatgttcc ctcttcagat gttgttgagg 180  
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<210> 88  
 <211> 301  
 <212> DNA  
 <213> Zea mays

<220>  
 <221> unsure  
 <222> (1)..(301)  
 <223> unsure at all n locations

<400> 88

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 ctgaatgaag gacaggttcc cccttcagat gttgtcgagg tcgttgtcag cactccttat 240  
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 t 301

<210> 89  
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<212> DNA  
 <213> Zea mays  
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 ttgtcaaaac cctgaatgaa ggacagggtc ccccttcaga tgttgctgag gtcgttgtca 240  
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<210> 90  
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 gggtgagaag attgtcaaaa ccctgaatga aggaaatgtt ccctcttcag atgttggtga 180  
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<210> 92  
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 <212> DNA  
 <213> Zea mays  
  
 <400> 92  
  
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 ttcagatggt gtggaggtcg ttgtcagccc tccttatgtc ttccttctg ttgtcaagag 240  
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 <212> DNA  
 <213> Zea mays  
  
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 <213> Zea mays  
  
 <400> 94  
  
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 caagagttcc aagttgctgc tcagaactgc tgggtgaaga agggatgtgc attcactggt 240  
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<210> 95  
 <211> 306  
 <212> DNA  
 <213> Zea mays

<400> 95

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aactggaaat gcaatggaac cacagatcag gtcgagaaga ttgtcaaaac cctgaatgaa 180
ggacagggttc ccccttcaga tgttgctgag gtcgttgtca gccctcctta tgtcttcctt 240
cctgtgggtca agagccagct gcgccaagag ttccatgttg ctgctcagaa ctgctgggtg 300
aagaag 306
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<210> 96  
 <211> 280  
 <212> DNA  
 <213> Zea mays

<400> 96

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<210> 97  
 <211> 280  
 <212> DNA  
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<400> 97

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caatggaacc acagatcagg tcgagaagat tgtcaaaacc ctgaatgaag gacagggttc 180
cccttcagat gttgtggagg tcgttgctcag cctccttat gtcttccttc ctgtgggtcaa 240
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<210> 98  
 <211> 276  
 <212> DNA  
 <213> Zea mays

<400> 98

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 gaaatgcaat ggaaccacag atcaggtcga gaagattgtc aaaaccctga atgaaggaca 180  
 ggttccccct tcagatgttg tggaggtcgt tgtcagccct ccttatgtct tccttcctgt 240  
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 <211> 300  
 <212> DNA  
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 <223> unsure at all n locations

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<210> 100  
 <211> 316  
 <212> DNA  
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<400> 100

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 ttccctcccc ctagct 316

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 <212> DNA  
 <213> Zea mays

<400> 101

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 ttccctcccc cctagcttt ttgtg 325

<210> 102  
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<400> 102

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 aatggaacca cagatcaggt cgagaagatt gtcaaaaccc tgaatgaagg acaggttccc 180  
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 agccagctgc gccaaagatt ccatgttgct gcc 273

<210> 103  
 <211> 281  
 <212> DNA  
 <213> Zea mays

<400> 103

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<212> DNA

<213> Zea mays

<400> 104

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aactggaaat gcaatggaac cacagatcag gtcgagaaga ttgcctaaac cctgaatgaa 180

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<211> 278

<212> DNA

<213> Zea mays

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ttgttgtcag tctccttat gtgttcctcc cggtggtcaa gagctagctg cgccaagagt 240

tccagttgct gctcagaact gctgggtgag aaggagat 278

<210> 106

<211> 216

<212> DNA

<213> Zea mays

<400> 106

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ggaaatgcaa tggaaccaca gatcaggtcg ataagattgt caaaaccctg aatgaaggac 180

aggttcccc ttcagatggt gtggaggtcg ttgtca 216

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<211> 188

<212> DNA

<213> Zea mays

<400> 107

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tgaggttgct gaatctacta ggatcattta cggaggctct gtaactgccg cgaactgcaa 180

agagctag 188

<210> 108

<211> 204

<212> DNA

<213> Zea mays

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cgcaccccaa tctaatcgac acctcgccga gatgggccgc aagttcttcg tcggtggcaa 120

ctggaaatgc aatggaacca cagatcaggt cgagaagatt gtcaaaacc tgaatgaagg 180

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<211> 278

<212> DNA

<213> Zea mays

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gaaatgcaat ggaaccacag atcaggtcga gaagattgtc aaaaccctga atgaaggaca 180  
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<400> 111

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caatggaacc acagatcagg tcgagaagat tgtcaaaacc ctgaatgaag gacaggttcc 180  
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<210> 113  
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<210> 114  
 <211> 237  
 <212> DNA  
 <213> Zea mays

<400> 114

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 tgaggttggt gtcagtcctc cttatgtgtt cctcccgggtg gtcaagagcc agctgcg 237

<210> 115  
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 <212> DNA  
 <213> Zea mays

<400> 115

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cccttcagat gttgtggagg tcg 203

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<210> 117  
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 <212> DNA  
 <213> Zea mays

<400> 117

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 aaacctgaa tgaaggacag gttccccctt cagatgttgt ggaggtcgtt gtcagccctc 180  
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 <212> DNA  
 <213> Zea mays

<400> 118

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 <212> DNA  
 <213> Zea mays  
  
 <400> 120  
  
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 ggttgagaag attgtcaaaa ccctgaatga aggaaatgtt ccctcttcag atgttggtga 180  
 ggtcgttgtc agtcctcctt atgtgttctt cccggtgggc aagagccagc tgcgccaaga 240  
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 <213> Zea mays  
  
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 aatggaacca cagatcaggt cgagaagatt gtcaaaaccc tgaatgaagg acaggttccc 180  
 ccttcagatg ttgtggaggt cgttgtcagc cctccttatg tcttccttcc tgtggtca 238

<210> 122  
 <211> 303  
 <212> DNA  
 <213> Zea mays  
  
 <400> 122



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 ctgcacaaac aaaagcaatt gctgagaaga tcaaggactg gagcaacgta gttgttgctt 180  
 atgaaccagt ttgggctatt ggaactggta aagttgccac ccagctcag ctcaggaagt 240  
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 tag 303

<210> 123  
 <211> 242  
 <212> DNA  
 <213> Zea mays

<400> 123

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 ggttgagaag attgtcaaaa ccctgaatga cggaaatggt ccctcttcag atgttggtga 180  
 ggtcgttggtc agtctctctt atgtgttctt cccggtgggc aagagccagt gcgccaagag 240  
 tt 242

<210> 124  
 <211> 327  
 <212> DNA  
 <213> Zea mays

<400> 124

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 cgaaatccaa tctagaagct cccctctccc tccctccctc tctctctctc tcttcgccgt 120  
 ccgaagctcc gcacccaatc taatcgacac ctcaccgaga tgggccgcaa gttcttcgtc 180  
 ggtggcaact ggaaatgcaa tgggaaccaca gatcaggctg agaagattgt caaaacctg 240  
 aatgaaggac aggttcccc ttcagatgtt gtcgaggctg ttgtcagccc tccttatgtc 300  
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<210> 125  
 <211> 297  
 <212> DNA

<213> Zea mays  
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 atgcaatgga accacagatc aggtcgagaa gattgtcaaa accctgaatg aaggacaggt 180  
 tcccccttca gatgttgtgg aggtcgttgt cagccctcct tatgtattcc ttcctgtgggt 240  
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 <212> DNA  
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 gactgagctt ctttgaagcc tgagttcatc gacatcatca acgcggccac cgtgaagtcc 180  
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 <212> DNA  
 <213> Zea mays  
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 <222> (1)..(171)  
 <223> unsure at all n locations  
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 ccaatcta at cgacacctca ccgagatggg ccgcaagttc ttcgtcgggtg gcaactggaa 120  
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<210> 128  
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<212> DNA  
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 atgcaatgga accacagatc aggtcgagaa gattgtcaaa accctgaatg aaggacaggt 180  
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 caagag 246

<210> 129  
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 tcggtggcaa ctggaaatgc aatggaacca cagatcaggt cgagaagatt gtcaaaaacct 180  
 tgaatgaagg acagggtccc ccttcagatg ttgtggaggt cgttgtcagc cctccttatg 240

<210> 130  
 <211> 212  
 <212> DNA  
 <213> Zea mays  
 <400> 130  
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 agctccgcac ccaatctaata cgacacctca ccgagatggg ccgcaagttc ttcgtcgggtg 120  
 gcaactggaa atgcaatgga accacagatc aggtcgagaa gattgtcaaa accctgaatg 180  
 aaggacaggt tcccccttca gatgttgctg ag 212

<210> 131  
 <211> 151  
 <212> DNA  
 <213> Zea mays  
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<400> 134

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cgcacccaat ctaatcgaca cctcaccgag atggggccgca agttcttcgt cgggtggcaac 120  
tggaaatgca atggaaccac agatcaggtc 150

<210> 135

<211> 323

<212> DNA

<213> Zea mays

<400> 135

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gcgggcgctt caccggcgag atcagtgtg agatgctggt aaacctgcag gtgcctgggt 180  
cattttggga cattctgagc gcagagctct gttgggtgaa tccagtgatt ttgttgctga 240  
taaagttgca tatgcactca ctcaaggctc caaggtaatt gcttgcatg gtgagaccct 300  
tgagcagaga gaggcaggaa caa 323

<210> 136

<211> 214

<212> DNA

<213> Zea mays

<400> 136

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gccgtcgcag cgcagaactg ctgggtgcgc aaggcgccgc ccttcaccgg cgagatcagt 120  
gctgagatgc tggtaaacct gcaggtgcc tgggtcattt tgggacattc tgagcgcaga 180  
gctctgttgg gtgaatccag tgattttgtt gctg 214

<210> 137

<211> 267

<212> DNA

<213> Zea mays

<400> 137

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cctgcaggac gaccaatggc ttccaggaag ttcttcgtgg gtggcaactg gaaatgcaac 120  
 ggtactggcg aggacgtgaa gaagatcgtc accgtgctca acgaagccga ggtgccctct 180  
 gaagacgtcg tcgaggtggg ggtgagtccg ccgttcgttt ttctgcagca ggtcaagggg 240  
 ctgctgcggc tggacttcgc cgtcgca 267

<210> 138  
 <211> 191  
 <212> DNA  
 <213> Zea mays

<400> 138

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 gcggcgccct caccggcgag atcagtgtg agatgctgg aaacctgcag gtgccctgag 180  
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<210> 139  
 <211> 322  
 <212> DNA  
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<220>  
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 <222> (1)..(322)  
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<400> 139

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 ctagacttcg ccgtcgcagc gcagaactgc tgngtgcgca agggcngcgc cttcaccggc 300  
 gagatcagtg ctgagatgct gg 322

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 <211> 240  
 <212> DNA

<213> Zea mays  
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 cgaggacgtg aagaagatcg tcaccgtgct caaccaagcc gaggtgccct ctgaagacgt 180  
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<210> 141  
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 acgtgaagaa gatcgctcacc gtgctcaacc aagccgaggt gccctctgaa gacgtcgtcg 180  
 aggtggtggt gagtccgcct ttcgtttttc tgcagcaggt caaagggctg ctgcggctgg 240  
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 <213> Zea mays  
 <400> 142  
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 ggtactggcg aggacgtgaa gaagatcgtc accgtgctca accaag 166

<210> 143  
 <211> 322  
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gcgcgcgtcgt ccctcgtgtc ctcccatctc tctcgctcgc cgcacctccg ccgcgcggcg 120  
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ctgatgtaga tgttgtggtg gc 322

<210> 144  
<211> 303  
<212> DNA  
<213> Zea mays

<400> 144

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ccgcgcgcgc cggcgcgggc cactcccacc gtcccacagc agcttcgcgt cggctgctcg 180  
ctccgcgcgc cccagcgcgt cgtcgccatg gctggatccg gcaagttctt cgtcggaggc 240  
aactggaagt gcaacggaac aaaggactcc gttagcaagc ttgtctctga actgaatgct 300  
gct 303

<210> 145  
<211> 270  
<212> DNA  
<213> Zea mays

<400> 145

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gccgcgctgc ggcgcgggcc actcccaccg tcccacagca gcttcgcgtc ggcttctcgc 180  
gccgcgcgc ccagcgcgtc gtccgcatgg ctggatccgg caagttcttc gtcggaggca 240  
actggaagtg caacggaaca aaggactccg 270

<210> 146  
<211> 301  
<212> DNA  
<213> Zea mays



<400> 146

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cgagactgag aatggccgcg gcgccgtcgt ccttcgccac ctcccatctc tcccgctcgc 120

ccgacctccg ccgcgcggcg cgcgcggccac tcccaccgtc ccacagcagc ttcgcgtcgg 180

cttctcgcgc cgcgcgcgcc agcgcgtcgt cgccatggct ggatccggca agttcttcgt 240

cggaggcaac tggaagtgca acgtaacaaa ggactccgtt agcaagcttg tctctgaact 300

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<210> 147

<211> 282

<212> DNA

<213> Zea mays

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<221> unsure

<222> (1)..(282)

<223> unsure at all n locations

<400> 147

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gccgacctcc gccgcgcggc ggcgccggnc cactcccacc gtcccacagc agcttcgcgt 180

cggctttctc cgcgcgcgcg cccagcgcgt cgtcgcctatg gctggatccg gcaagttctt 240

cgtcggaggc aactggaagt gcaacgcaac aaaggactcc gt 282

<210> 148

<211> 273

<212> DNA

<213> Zea mays

<400> 148

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cctccgccgc gcggcgcgcc ggccaactccc accgtcccac agcagcttcg cgtcggcttc 180

tgcgcgcggc gcgccagcg ggctcgtccc atggctggat ccggcaagtt ctctcgtcga 240

ggcaactgga agtgcaacgc aacaaaggac tcc 273

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 aactgcaaag aacttgcagc tcaaccagat gttgatggat tccttgttgg tggagcctca 240  
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 ctgagcaagc ccaggaagtt catgctgctg tacgcgattg gttgacgacc aacatatcac 180  
 ctgatgttgc ctctagcacc cgaataatct atggagggttc tgtgaatgca gccaaactgtg 240  
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 gcctctagca cccgaataat ctatggaggt tctgtgaatg cagccaactg tgcagagcta 180  
 gcaaagaaag aggatatcga tggttttctt gttggtggtg cctccttgaa ggccccggac 240  
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 <222> (1)..(295)  
 <223> unsure at all n locations  
  
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aacttttgaa gtatgttttg agcagatgaa ggcttgtgca gatagtattt caaactgggc 120  
cgatgttggtg attgcatatg agcctgtttg ggctattgga accggataag ttgctactcc 180  
tgagcaagcc caggaagttc atgctgctgt acgcgattgg ttgacgacca acatatcacc 240  
tgatgttgcc tctagcaatt ttntaatcta tggaggttct gtgaatgcag ccaac 295

<210> 161  
<211> 242  
<212> DNA  
<213> Zea mays

<400> 161

agagagggaa gcaggcaaaa cttttgatgt atgttttagg cagatgaagg cttttgcaga 60  
tagtatttca aactgggcag atgttgtaat tgcatacgag cctgtttggg cgattggaac 120  
cggaaaagtt gctactcctg agcaagccca ggaagtccat gctgctgtac gcaattggct 180  
gaagaccaac atatcacccg atgttgccct tagcactcga ataatctatg gaggttctgt 240  
ga 242

<210> 162  
<211> 237  
<212> DNA  
<213> Zea mays

<400> 162

cggaaaagtt gctactcctg agcaagccca ggaagtccat gctgctgtac gcgattgggt 60  
gacgaccaac atatcacctg atgttgccct tagcacccga ataatctatg gaggttctgt 120  
gaatgcagcc aactgtgcag agctagcaaa gaaagaggat atcgatgggt ttcttggttg 180  
tggtgcctcc ttgaaggccc cggacttcgc caccattatc aactcagtga ccgcca 237

<210> 163  
<211> 314  
<212> DNA  
<213> Zea mays

<400> 163

cccacgcgtc cggcctcggt gaaggccccg gacttcgcca ccattatcaa ctcagtgacc 60  
gccaagaaaag ttgcagcctg atggaccacc ctgtgagaaa taagaggcca tcagcgtgtc 120

gcctcatctg ccacgcctta aagcctgtat aggaggtgat cctgtgtgatg gtgtgcccgt 180  
cacctcctgt ttttgcctgat ttgcagcacg gggacagaaa ataatgtttt gctctcgtgg 240  
acctgcactg cacgtgacga ggagagttca gttgtcgtga gcgatgtacg ttggggatat 300  
tgtgatgtgg tcct 314

<210> 164  
<211> 167  
<212> DNA  
<213> Zea mays

<220>  
<221> unsure  
<222> (1)..(167)  
<223> unsure at all n locations

<400> 164

cggaggttct gtgaatgcag ccaactgtgc agagctagca aagaaagagg atatcgatgg 60  
ttttgttggt ggtggtgcct ccttgaaggc cccggacttc gccaccatta tcaactcagt 120  
gaccgccaag aaagttgcag cctcgtgnga ncacctgtga agaaata 167

<210> 165  
<211> 368  
<212> DNA  
<213> Zea mays

<400> 165

ttcggctcga ggaattgaat gctgtaccct tgaaactgat gtagatgttg tgggtggcaca 60  
tccattcatc tatattgacg aggttaagaa ttcactaact ggtcgcattg aggtttctgc 120  
tcagaatgtg tggattggaa aaggaggagc ctacaccgga gagatcagtg cagaacaact 180  
ggtggacatc ggctgtcaat gggttattct tggacactct gagcgtagac atattattgg 240  
tgaaaatgat gagtttattg gaaagaaggc tgcatatgca ttgagcccaa atgttaaggt 300  
tattgcctgc ataggagagc tgctggaaga gagggaagca ggcaatactt ttgatgtatg 360  
tctaggca 368

<210> 166  
<211> 304  
<212> DNA  
<213> Zea mays

<400> 166

cctcgaaact gatgtagatg ttgtggtggc tcctccattc atctatatcg atcagggtcaa 60  
gaattcacta acgggtcgca ttgaggtttc tgctcagaat gtgtggattg gaaaaggagg 120  
agcctacacc ggagagatca gtgcagaaca actggtggac atcggttggtc aatgggttat 180  
tcttggacac tcagagcgta gacatattat tggtgaaaat gacgagttta ttggaagaa 240  
ggctgcatat gcattgagcc aaaatgttaa ggttattgcc tgcataaggag agcttctgga 300  
agag 304

<210> 167

<211> 261

<212> DNA

<213> Zea mays

<400> 167

gtggtggcac ctccatttat ctatattgat cagggttaaga attcactaac tggtcgcatt 60  
gaggtttctg ctcagaatgt gtggattgga aaaggaggag cctacaccgg agagatcagt 120  
gccgaacaac tgggtggacat cggctgtcaa tgggttattc ttggacactc tgagcgtaga 180  
catattattg gtgaaaatga tgagtttatt ggaaagaagg ctgcatatgc attgagccaa 240  
aatgttaagg gtattgctg c 261

<210> 168

<211> 225

<212> DNA

<213> Zea mays

<400> 168

tctatatcga tcagggtcaag aattcactaa cgggtcgcat tgaggtttct gctcagaatg 60  
tgtggattgg aaaaggagga gcctacaccg gagagatcag tgcagaacaa ctggtggaca 120  
tcggttggtca atgggttatt cttggacact cagagcgtag acatattatt ggtgaaaatg 180  
acgagtttat tgggaagaag gctgcatatg cattgagcca aaatg 225

<210> 169

<211> 328

<212> DNA

<213> Zea mays



<400> 169

atacaattta gaagcgcccc tctctctctc ccccatccgt acccaatcta atcgacaccc 60

ggccgagatg ggccgcaagt tcttcgttgg tggcaactgg aaatgcctgg aagagcccg 120

gttcttcttc caatgcgcct gtgcttccag gctccagccc agagcaaata gtaaaagccc 180

ttcataagtt tcgtgatgca tggtgtctgt aggagcagag gagttcgata tccaactttt 240

ggagacccat tctcgtttgc tgcacgaatt aaccttacgt ttcttgatcat ggagctcggg 300

gcttgctcaa tctgagcata gggttgag 328

<210> 170

<211> 228

<212> DNA

<213> Zea mays

<220>

<221> unsure

<222> (1)..(228)

<223> unsure at all n locations

<400> 170

gaagggaggt gcncccactg aatncatnac catttgagat nctngacaac ctncctggggg 60

tagggttcan ggctggncgc cctgaaagga gaacnntaat aagaaaataa catgaattcg 120

ggatccgcag agtcnncgtn tgcggcgggc gngggactaa angtcattgc atgtgttgcc 180

gagacncttg aacacaacna gntngtggac nncatnctnc nncncggg 228

<210> 171

<211> 339

<212> DNA

<213> Zea mays

<400> 171

ctagagtttt gcagcaacct agcactaagg ctcttgctaa aaagggaata cagcaagcat 60

tgacaagtgc tgaagaacca gatgagcctc ctctgtgaag aggagcctac accggactga 120

tcagtgcaaa acaactggtg gacatcatct gtcaatggat gattcttgga cactctgagc 180

gtagacatat tattggtgaa aatgatgagt ttattggaaa gaaggctgca tatgcataga 240

gccaaaatgt taagggcatt gcctgcatag gagagctgct tgaagagagt gaagcatgca 300

aaactcttaa tgtatgttga atgcagatga aggcttttg 339

<210> 172  
 <211> 348  
 <212> DNA  
 <213> Zea mays

<400> 172

aacacgcgtc cggcctcctt gaaggccccg gacttcgcca ccattatcaa ctcagtgacc 60  
 gccaaagaaag ttgcagcctg atggaccacc ctgtgaagaa ataagaggcc atcacctgtg 120  
 cgccctcatct gccacgcctt aaagcctgta ggaggcgtca cctcctgttt ttgctgattt 180  
 gcagcacggg gacagaaaat aatgttttgc tctcgtggat ctgcacgtga cgaggagagt 240  
 tcagttgtcg tgagcgatgt acgttgggaa tattgttatg tggtcctttt ctaaagaaaa 300  
 aaaatgttga cagtcaagga aaaataataa aaaaaggcgg ccgctcta 348

<210> 173  
 <211> 373  
 <212> DNA  
 <213> Zea mays

<400> 173

gcgcgcctcg gcttcagcgc catggcgccc tccaggaagt tcttcgttgg gggagactgg 60  
 gagaagaacg ggcggaagca cagtctgggg gagctcatcg gcactctgaa cgcggtcaag 120  
 gtgccggccg acaccgatgt ggaacgtgct cagcatactg cctatatcga cttagtccgg 180  
 cagaagctag atcccaagaa cgctgaggct gcgcagaact gctacaaagt gactaatgac 240  
 gcttgaactg atgagatcag ccctggcatg atcaaact gcggagccac acgggcggta 300  
 ctggggcact cagagagaac gcatgtcttt ggggagtcag atgagctgat tgggcacaaa 360  
 gtgcgccatg ctc 373

<210> 174  
 <211> 442  
 <212> DNA  
 <213> Zea mays

<400> 174

ggtggagctt ctttgaagcc tgagttcatc gacatcatca acgcggccac cgtgaagggc 60

gctgaagatg ttacgctgaa gacgaacata cttttttttt gctcaactgt gctatgtaag 120  
ctagtagctt ttgcgagga gcagagactg ttttgccctgc ccccaacttt tagcttgagc 180  
ttgctaataa tgtttacctc tggacgtatc aataatgggtg cttatgtacc ctttttttgt 240  
gccgaattac ggtggatccg tcatctgaac catggggttg gtgtatgtaa ttgcgtcacc 300  
cgatgcctaa ggtgagactg aagtttttgg acatttgga caaggtagcc ttgtgccccca 360  
cattggtcga atgctgcca aactgtaccg gtcattctgtg ctccgtacgg attagcctga 420  
tctgcgaatg caacttgtca gc 442

<210> 175  
<211> 433  
<212> DNA  
<213> Zea mays

<400> 175

cccacgcgtc cgggatcatt tacggaggct ctgtaactgc cgcgaactgc aaagagctgg 60  
cagcacagcc tgatgtcgat gggtttcttg tcgggtggagc ttctttgaag cctgagttca 120  
tcgacatcat caacgcggcc accgtgaagt ccgcttaaga tgttacgctg aagacgaaca 180  
tacttttttt ttgctcaact gtgctatgta agctagtagc ttttgcgag gagcagagac 240  
tgttttgcct gcccccaact tttagcttga gcttgctaata aatgtttacc tctggacgta 300  
tcaataatgg tgcttatgta cccctttttt gtgccgaatt acggtggatc cgtcatctga 360  
accatggggtt tgggtgatgt aattgcgtca cccgatgcct atggtgagac tgaagttttt 420  
ggacatttgg gac 433

<210> 176  
<211> 427  
<212> DNA  
<213> Zea mays

<400> 176

cgcaccccaa tctaactgac acctcgccgt gatggggcgc aagttcttcg tcgggtggcag 60  
ctggaaatgc aatggaacca cagatcaggt cgagaagatt gtcaaaacc tgaatgaagg 120  
acaggttccc ccttcagatg ttgtggaggt cgttgtcagc cctccttatg tcttccttcc 180  
tgtggtcaag agccagctgc gccaaagatt ccatgttgcg gctcagaact gctgggttaa 240

gaagggaggt gctttcaccg gtgaagtcag tgctgagatg ctcgtaacc ttggtgttcc 300  
 ctgggtcatt cttggacact ctgaaaggag agctctgctg ggagaatcaa atgaatttgt 360  
 tggagacaag gttgcgtatg ccctgtctca gggactaaag gtcattgcat gtggttggtga 420  
 gacactt 427

<210> 177  
 <211> 457  
 <212> DNA  
 <213> Zea mays  
 <400> 177

aagggttgcgt atgccctgtc tcagggacta aaggtcattg catgtgttgg tgagacagtt 60  
 gggcagaggg aggctgggtc taccatggag gttgttgctg cacaacaaa agcaattgct 120  
 gagaagatca aggactggag caacgtagtt gttgcctatg aaccagtttg ggctattgga 180  
 actggtaaag ttgccacccc agctcaggct caggaagtgc acgccttcct gagggattgg 240  
 ctaaagacca acgtcagccc tgaggttgct gaatctacta ggatcattta cggaggctct 300  
 gtaactgccg cgaactgcaa agagctagca gcacagcctg atgtcgatgg gtttcttgct 360  
 ggtggagctt ctttgaagcc tgagttcatc gacattatca acgcggtcac cgtgaagtcc 420  
 gcttaagatg ttacgtgaa gacgaacata ctttttt 457

<210> 178  
 <211> 471  
 <212> DNA  
 <213> Zea mays

<220>  
 <221> unsure  
 <222> (1)..(471)  
 <223> unsure at all n locations  
 <400> 178

agggttntc aacgtcacgt cgcacggaca gtacagacta cacggtcgag cacgcgtccg 60  
 accacacgtc cgcccacgcg tccggtcgcg caaaatttc aatgttgcg ctcaaaactg 120  
 ctggttaaac aaggaggtc ctttcaactg tgaactcagt gctgagatgc tcgtcaacct 180  
 tgggtgtccc tgcgtcatc ttggacactc tgaacgaga gctctgctgg gagaatcaaa 240  
 tgaatttgtt ggagacaagg ttgcgtatgc cctgtctcag ggactaaagg tcattgcatg 300

tggttggtgag acccttgagc agaaggaggc tgggtctnac atggatgttg ttgctgcaca 360  
aacaaaagca attgctgaga agatcaagga ctggagcaac gtacttggtg cctatgaacc 420  
agtttgggct attggaactg gtacagttgc cacctcagct caggctcagg a 471

<210> 179  
<211> 402  
<212> DNA  
<213> Zea mays

<400> 179

cccacgcgct cgcacgcg tccggacaag gttgcgtatg ccctgtctca gggactaaag 60  
gtcattgcat gtgttggtga gacccttgag cagagggagg ctgggtctac catggatgtt 120  
gttgctgcac aaacaaaagc aattgctgag aagatcaagg actggagcaa cgtagttgtt 180  
gcctatgaac cagtttgggc tattggaact ggtaaagttg ccaccccagc tcaggctcag 240  
gaagtgcacg cctccctgag ggattggcta aagaccaatg ccagccctga ggttgctgaa 300  
tctactagga tcatctacgg aggctctgta actgctgcga actgcaaaga gctagcagca 360  
cagcctgatg tcgatggttt tcttgctcgt ggagcttctt tg 402

<210> 180  
<211> 450  
<212> DNA  
<213> Zea mays

<400> 180

atttagaagc gccctcctc ctctccccct tccgtacceca atctaatega caccggccg 60  
agatgggccc caagttcttc gttggtggca actggaaatg caatggaacc gcagatcagg 120  
ttgagaagat tgtcaaaacc ctgaatgaag gaaatgttcc ctcttcagat gttggtgagg 180  
tcgttgctcag tcctccttat gtgttcctcc cgggtgtcaa gagccagctg cgccaagagt 240  
tccaagttgc tgcttagaac tgctgggtga ataaggaggg tgcattcact ggtgaaatta 300  
gtgctgaaat gctcgtcaac cttggcggtc cctgggtcat tcttgacac tctgaaagga 360  
gagctctgct gggagaatca aatgagtttg ttggagacaa ggttggtttt gctctgtcta 420  
agggactaaa ggtcattgca tgtgttggtg 450

<210> 181  
 <211> 503  
 <212> DNA  
 <213> Zea mays

<400> 181

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cggcgctcga ggggctgact gttcatttcg cctgtcgggtg caagtccgaa attcgccggg 60
ccaccacgc aaccgaacca atctagaagc tccctctctc ctccctccct ctctctctct 120
ctcttcgccc tccgaagctc cgcacccaat ctaatcgaca cctcaccgag atgggccgca 180
agttcttcgt cgggtggcaac tggaaatgca atggaaccac agatcagggtc gagaagattg 240
tcaaaaccct gaatgaagga cagggtcccc cttcagatgt tgtcgagggtc gttgtcagcc 300
ctccttatgt cttccttccct gtggtcaaga gccagctgcg ccaagagttc catgttgctg 360
ctcagaactg ctgggtgaag aaggagggtg ctttcactgg tgaagtcagt gctgagatgc 420
tcgtcaacct tgggtgtccc tgggtcattc ttggacactc tgaaggaga gctctgctgg 480
gagaatcaaa tgaatttggt gga 503

```

<210> 182  
 <211> 387  
 <212> DNA  
 <213> Zea mays

<400> 182

```

cccacgcgtc cgcgcccctc ctcctctcct tcatccgtac ccaatctaata ctacaccggg 60
gcgagatggg ccgcaagtgc ttcgttggtg gcaactggaa atgcaatgga accgcagatc 120
aggttgagaa gattgtcaaa accctgaatg aaggaaatgt tccctcttca gatgttggtg 180
aggtcgttgt cagtcctcct tatgtgttcc tcccgggtgt caagagccag ctgcgccaaag 240
agttccaagt tgctgctcag aactgctggg tgaagaaggg aggtgcattc actggtgaaa 300
ttagtgctga aatgctcgtc aaccttggcg ttccctgtgt cattcttgga cactctgaaa 360
ggagagctct gctgggagaa tcaaagt 387

```

<210> 183  
 <211> 404  
 <212> DNA  
 <213> Zea mays

<220>

<221>       unsure  
 <222>       (1)..(404)  
 <223>       unsure at all n locations  
  
 <400>       183  
  
 acttgagcag agggaggctg ggtctacat ggaggttgtt gctgcacaaa caaaagcagt   60  
 tgctgagaag atcaaggact ggagcaacgt agttgttgcc tatgaaccag tttgggctat   120  
 tggaactggt aaagttgcc acccagctca ggctcaggaa gtgcacgcct ccctgaggga   180  
 ttggctaaag accaacgtca gccctgaggt tgctgaatct actaggatca tttacggagg   240  
 ctctgtaact gccgcgaact gcaaagagct agcagcacag cctgatgtcg atgggtttct   300  
 tgctgggtgga gcttctttga agcctgagtt catcgacatc atcaacgcgg ccaccgtgaa   360  
 gtccgcttaa gatgttacgc tgaagacgaa catactnttt tttt                   404

<210>       184  
 <211>       413  
 <212>       DNA  
 <213>       Zea mays

<400>       184  
  
 aatccaatct agaagcacc ctctccctct ctctctcttc gccgtccgaa gctccgcacc   60  
 ccaatcta atcgacacctca ccgagatggg ccgcaagttc ttcgtcggtg gcaactggaa   120  
 atgcaatgga accacagatc aggtcgagaa gattgtcaaa accctgaatg aaggacaggt   180  
 tcccccttca gatgttggtg aggtcggtgt cagccctcct tatgtcttcc ttcctgtggt   240  
 caagagccag ctgcgccaag agttccatgt tgctgctcag aactgctggg tgaagaaggg   300  
 aggtgctttc actggtgaag tcagtgtga gatgctcgtc aaccttggtg ttccttggtg   360  
 cattcttgga cactctgaaa ggaaagctct gctgggaaaa tcaaatgaat ttg           413

<210>       185  
 <211>       423  
 <212>       DNA  
 <213>       Zea mays

<220>  
 <221>       unsure  
 <222>       (1)..(423)  
 <223>       unsure at all n locations  
  
 <400>       185

```

agggggntnn naacagggcc ccagtccnc gcacgtcca ccggaangga agggncgacc 60
cgagcgagcg gntgctcaga actgctgggt gaagaagggt tgtgcattca ctggtgaaat 120
tagtgctgaa atgctgggtca accttggcgt tccctgggtc attcttggac actctgaaag 180
gagagctctg ctgggagaat caaatgagtt tggtggagac aaggttgctt ttgctctgtc 240
tcagggacta aaggtcattg catgtgttg tgagaccctt gaggagaggg aggctggttc 300
aaccatggat gttgttgctg cacaacaaa agcaattgct gagaagatca aggactggag 360
caacgttggt cttgcctatg aaccagtctg ggctattgga actggcaaag tcgccacccc 420
agc 423

```

```

<210> 186
<211> 423
<212> DNA
<213> Zea mays

```

```

<220>
<221> unsure
<222> (1)..(423)
<223> unsure at all n locations

```

```

<400> 186

```

```

aagctccgac ccaatctaata cgacacctca ccgagatggg ccgcaagtgc ttctgtcggtg 60
gcaactggaa atgcaatgga accacagatc aggtcgagaa gattgtcaaa accctgaatg 120
aaggacaggt tcccccttca gatgttgctg aggtcggttg cagccctcct tatgtcttcc 180
ttctgtggt caagagccag ctgcgccaa agttccatgt tgctgctcag aactgctggg 240
tgaagaaggg aggtgcttcc actggtgaag tcagtgtga gatgctcgtc aaccttggtg 300
ttccctgggt cattcttgga cactctgaaa ggagagctct gctaggagaa tcanatgaat 360
ctgttgagaa caaggttgct tatgccctgt cttaggact aaaggtcatt gcatgttggt 420
gtg 423

```

```

<210> 187
<211> 379
<212> DNA
<213> Zea mays

```

```

<400> 187

```



```

gggaggtgca ttcactggtg aaattagtgc tgagatgctc gtcaaccttg gcgttccttg 60
ggtcattctt ggacactctg aaaggagagc tctgctggga gaatcaaag agtttggttg 120
agacaagggt gcttttgctc tgtctcaggg actaaagggtc attgcatgtg ttggtgagac 180
ccttgaggag agggaggctg gttcaaccat ggatggttgtt gctgcacaaa caaaagcaat 240
tgctgagaag atcaaggact ggagcaacgt tgttcttgcc tatgaaccag tctgggctat 300
tggaactggc aaagtcgcca cccagctca ggctcaggaa gtgcacgcct tcctgaggga 360
ttgggtaaag atcaatgtc 379

```

```

<210>      188
<211>      349
<212>      DNA
<213>      Zea mays

```

```

<220>
<221>      unsure
<222>      (1)..(349)
<223>      unsure at all n locations

```

```

<400>      188

```

```

cggacgcgtg ggctgaaagg agagctctgc tgggagaatc aatgaattt gttggagaca 60
aggttgcgta tgccctgtct cagggactaa aggtcattgc atgtgttggt gagacacttg 120
agcagagggg ggctgggtct accatggagg ttgttgcctg acaaacaaaa gcaattgctg 180
agaagatcaa ggactggagc aacgtagttg ttgcctatga accagtttgg gctattggaa 240
ctggtaaagt tgccaccca gctcaggtc aggaagtgc cgcctnctg agggattggc 300
taaagaccaa cgtcagccct gaggttgctg aatctactag gatcattta 349

```

```

<210>      189
<211>      314
<212>      DNA
<213>      Zea mays

```

```

<400>      189

```

```

caggtcgaga agattgtcaa aaccctgaat gaaggacagg ttcccccttc agatgttggt 60
gaggtcggtt tcagccctcc ttatgtcttc ctctctgtgg tcaagagcca gctgcgccaa 120
gagttccatg ttgcggctca gaactgctgg gttaagaagg gaggtgcttt caccggtgaa 180
gtcagtgtg agatgctcgt caaccttggt gttccctggg tcattcttgg acactctgaa 240

```

aggagagctc tgctgggaga atcaaatgaa tttgttgagg acaagggtgc gtatgccttg 300  
tctcaggac taaa 314

<210> 190  
<211> 360  
<212> DNA  
<213> Zea mays  
  
<400> 190

gcctctgttg gccgttcgaa tctccgcacc caatttaatc gacacctcac cgagatgggc 60  
cgcagagttc ttcgtcgggtg gcaactggaa atgcaatgga accacagatc aggtcgagaa 120  
gattgtcaaa accctgaatg aaggacaggt tcccccttca gatgttgctg aggtcgttgt 180  
cagccctcct tatgtcttcc ttctgtgggt caagagccag ctgcgccaag agttccatgt 240  
tgctgctcag aactgctggg tgaagaaggg aggtgctttc actggtgaag tcagtgtga 300  
gatgctcgtc aaccttggtg ttccctgggt cattcttga cactctgaaa agagagctct 360

<210> 191  
<211> 338  
<212> DNA  
<213> Zea mays  
  
<400> 191

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gcagatcagg ttgagaagat tgtcaaaacc ctgaatgaag gaaatgttcc ctcttcagat 180  
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<210> 192  
<211> 430  
<212> DNA  
<213> Zea mays  
  
<400> 192

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gtcattgcat gtggttggtga tacccttgat catagggatg ctgagtctac catggatggt 180  
gttgctgcac atccagaagc aattgctgat aacatcaagg actggatcaa cgtaattggt 240  
gcctatgaac cactttgggc tattggaact ggtaaagttg ccaccccagc tcaggctcag 300  
gaagtgcacg cctccctgaa ggattggcta aagaccaatg ccatccctga ggttgctgaa 360  
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cagcctgatg 430

<210> 193  
<211> 408  
<212> DNA  
<213> Zea mays

<400> 193

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gtggcaactg gaaatgcaat ggaaccacag atcatgtcgc gaacatagtc aaaaccctga 180  
atgaacgaca ggttccccct tcagatcttg accaggtcgt tgccagccct acttatgtct 240  
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gggtgaagaa aggacgtgct ttcactgggtg aactcagatc tgagatgctc ctcaaccttg 360  
gtgateccctg agtcattctt ggacactctg aaacgagaac tctgcttg 408

<210> 194  
<211> 267  
<212> DNA  
<213> Zea mays

<400> 194

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attgcatgtg ttggtgagac acttgagcag aaggaggctg ggtctaccat ggaggttggt 180  
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tatgaaccag tttgggctat tggaact 267

<210> 195  
 <211> 241  
 <212> DNA  
 <213> Zea mays  
  
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 gcagaaggag gctgggtcta ccatggatgt tgggtgctgca caaacgaaag caattgctga 180  
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 t 241

<210> 196  
 <211> 260  
 <212> DNA  
 <213> Zea mays  
  
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 ttctctgtgt caagagccat 260

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 ccaacccttc accctgttgc ggtgatgtgc tgaagacaga tcagactact tttttgttta 240  
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cctagctttt tgtgaggcta ctctacagct tgattcagct tgctaataat gtttgctct 360  
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<210> 198  
 <211> 231  
 <212> DNA  
 <213> Zea mays  
 <400> 198

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 ggttgagaag attgtcaaaa ccctgaatga aggaaatgtt ccctcttcag atgtcgttga 180  
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<210> 199  
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 <212> DNA  
 <213> Zea mays  
 <400> 199

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 ccaacccttc accctgttgc ggtgatgtgc tgaagacaga tcagactatt tttttgttta 180  
 accgtgcagt gctatgtaag ctactaactt tgcgctgggtg cggatgctga tttccctccc 240  
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 ggac 304

<210> 200  
 <211> 463  
 <212> DNA  
 <213> Zea mays

<220>  
 <221> unsure  
 <222> (1)..(463)  
 <223> unsure at all n locations  
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aagccgtcgt ctagaatcgt cgggcgaaga agggaggcgt acctatcggc gaaaccagcg 180
tcgaaacgtc tgctaattcc ggtgcctttc gggctacctc cggatatctc gaaaggagag 240
tctcgtcggg agaactaaac gagcccgcg gagataaggc cgtccccgtc tcgctctagg 300
gatcaaaggc taccgtagcg gccggcgaga tttccgagga gagggaggtc ggcctaatta 360
cggacgccgc cgtcgtataa ataaaagtaa ccgtcgagaa gactaaggat cggagtaatg 420
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<210>      201
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<212>      DNA
<213>      Zea mays

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<220>
<221>      unsure
<222>      (1)..(469)
<223>      unsure at all n locations

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<400>      201

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taagccgtgg tcggagatcg tcgggcgaag aaggaggcgt tacctatcgg cgaaaccagc 180
gtcgaaacgt ctgctaattc cggtgccctt cgggctacct ccggatatct cgaaaggaga 240
gtctcgtcgg gagaactaaa cgagcccgc ggagataagg ccgtccccgt ctcgctctag 300
ggatcaaagg ctaccgtacg cgccggcgag atttccgagg agaggagggt cggcctaatt 360
acggacgccg ccgtcgtata aataaaagta accgtcgaga agactaagga tcggagtaat 420
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<210>      202
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<212>      DNA
<213>      Zea mays

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<220>
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<223>        unsure at all n locations

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caagccgagg tgccctctga agacgtcgtc gaggtgggtg tgagtcgcgc ttctggtttt  180
ctgcagcagg tcaaggggct gctgcggtg gacttcgccg tcgcagcgca gaactgctgg  240
gtgcgcaagg gcggcgccct caccggcgag atcagtgtg agatgctgg aaacctgcag  300
gtgccctgng tcattttggg acattctgag cgcagagctc tgttgggtga atccagtgat  360
tttgttgctg ataaagttgc atatgcactc actcaaggctc tcaaggtaat tgcttgcat  420
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<210>        203

<211>        402

<212>        DNA

<213>        Zea mays

<400>        203

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cgcccccgaa cctggcgtct gccctaccaa ccgcagcagc gacactagaa tggccgcggc  120
gccgtcatcc ctgcgctcct cccacctctc cccaatcgcg gcggtgtcca ctcccgccgt  180
cccacatcag cttcgcatcg gctgctcccc ccgacgcgcc gggcgcatcg ttgccatggc  240
tggatccggc aagttcttcg tcggaggcaa ctggaagtgc aatggaacaa aggactccat  300
tagcaaactt gtctctgaat tgaatgctgc tacccttgaa actgatgtag atgttggtgt  360
ggcacccctc tttatctata ttgatcaggt taaagaattc ac                        402
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<210>        204

<211>        415

<212>        DNA

<213>        Zea mays

<400>        204

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ttggaaagaa ggctgcatat gcattgagcc aaaatgttaa ggttattgcc tgcataggag  120
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agctgctgga agagagggaa gcaggcaaaa cttttgatgt atgttttagg cagatgaagg 180  
cttttgcaga tagtatttca aactgggcag atgttgtaat tgcatacgag cctgtttggg 240  
ctattggaac cgaaaaagtt gctactcctg aacaagccca ggaagtcat gctgctgtac 300  
gcaattggct gaagaccaac atatgaccg atgttgccct tagcactcga ataatctatg 360  
gaggatctga gaatgcatgc aactgtgcgg agctagcaaa gaaagaagat attga 415

<210> 205  
<211> 433  
<212> DNA  
<213> Zea mays

<400> 205

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gaggttctgt gaatgcagcc aactgtgcag agctagcaaa gaaagaagat atcgacgggt 120  
ttcttggttg tgggtgcctg ttgaaggccc cggacttcgc caccattatc aactcagtga 180  
ccgccaagaa agttgcagcc tgatggacca ccctgtgaga aataagaggc catcagcgtg 240  
tcgcctcatc tgccacgcct taaagcctgt ataggagggtg atccgtgtga tgggtgtgccc 300  
gtcacctcct gtttttctgt atttgcagca cggggacaga aaataatggt ttgctctcgt 360  
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attgtgatgt ggt 433

<210> 206  
<211> 429  
<212> DNA  
<213> Zea mays

<400> 206

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agaacaactg gtggacatcg gctgtcaatg ggttattctt ggacactctg agcgtagaca 180  
tattattggt gaaaatgatg agtttatttg aaagaaggct gcatatgcat tgagccaaaa 240  
tgtaaggtt attgcctgca taggagagct gctggaagag aggaagcag gcaaaaacttt 300  
tgatgtatgt ttaagcaga tgaaggcttt tgcagatagt atttcaaact gggcagatgt 360



tgtaattgca tacgaacctg tttgggctat tggaaccgga aaagttgcta cttcttgaac 420  
aaccacaaga 429

<210> 207  
<211> 298  
<212> DNA  
<213> Zea mays

<400> 207

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cggcctactg cggcaagtac gcgggtacgt tccatcgtct cctccttcgt tgctgatctg 120  
cttgtgatgt cgtttggcct cgtgtgtcgt agatctacga tctactagtt gttcgttgtt 180  
gatgcctca gatctacctg cgtttgacga gtatgttaac gattcgtcta gctctgagag 240  
acccaaggga tttgcggatc cttttttaga tccgtacagg ctcttgcggt cgtgccta 298

<210> 208  
<211> 288  
<212> DNA  
<213> Zea mays

<400> 208

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acactctttg tagactgtac tgtccacaga tcggagtttg aaatggaatg tgtggacaga 120  
aatctggtgg cctagcctaa cgattcgtat aggtctgaga gactcgttca gttgtaggat 180  
ttgtggattt tttttagatc cgtacaggat tgtgctgtcg tgtgcccgcc aagtgcttgg 240  
tggttgcaa aaggtgatgc ctctgatcgg tttggatatg ggatttgc 288

<210> 209  
<211> 61  
<212> DNA  
<213> Zea mays

<400> 209

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c 61

<210> 210

<211> 325  
 <212> DNA  
 <213> Zea mays  
  
 <400> 210  
  
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 ttagtcatga tgtttatgcc gatacaatta tatataaagc agtttttggt taataaacag 120  
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 tgataatgga agtcattttg tattattcag tatagccttg gtacctggta gatagccatg 240  
 cttattatgc atattgtttt gcagatgagc tcatcaagaa tgctgcctac attggcaccc 300  
 ccggcaaggg tatecttgct gctga 325

<210> 211  
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 <212> DNA  
 <213> Zea mays  
  
 <400> 211  
  
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 cctggctgca gacgagtcca ctggaagcac tgccaagcgc ctgcagtcca ttggcagcga 180  
 gaacaccgag gagaacaggc gcttctaccg ccaactgctg ctgactgccg atgaccgtgt 240  
 gaatccctgc attggaaggg tgatcctttt ccacgagaca ctataccaga aggcaga 297

<210> 212  
 <211> 167  
 <212> DNA  
 <213> Zea mays  
  
 <400> 212  
  
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 gccccctgcc gtcctgggg tcactttcct gtctggaggg cagagtg 167

<210> 213  
 <211> 257  
 <212> DNA

<213> Zea mays

<400> 213

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aagtcccact gttcttgctc taaatctgtg tctgttgttt tgcagatgag ctcatcaaga 120  
atgctgccta catcggcacc cctggcaagg gtatccttgc tgctgatgag tcaactggca 180  
ccagtggcaa ggcgctttcc agcatcaatg tcgagtacgt ggaggagaac cggcgggctc 240  
tccgtgagct cctgttc 257

<210> 214

<211> 273

<212> DNA

<213> Zea mays

<400> 214

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gaggactggt gttagcatcc cttgtggtcc atctgcatta gcagtcaagg aagcagcatg 180  
gggacttgct cgatatgctg ctattgctca ggataatggt ttagtgccaa ttgtggagcc 240  
agagattcctt cttgatggag accatgggat cga 273

<210> 215

<211> 255

<212> DNA

<213> Zea mays

<400> 215

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gaggactggt gttagcatcc cttgtggtcc atctgcatta gcagtcaagg aagcagcatg 180  
gggacttgct cgatatgctg ctattgctca ggataatggt ttagtgccaa ttgtggagcc 240  
agagattcctt cttga 255

<210> 216

<211> 320

<212> DNA

<213> Zea mays

<400> 216

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gtagcatcc cttgtggtcc atctgcatta gcagtcaagg aagcagcatg gggacttgct 180  
cgatatgctg ctattgctca ggataatagt ttagtgccaa ttgtggagcc agagattctt 240  
cttgatggag accatgggat cgacggagct cttgaggtgg cagagaaagt gtggtctgag 300  
gtgtttttct acttagccga 320

<210> 217

<211> 284

<212> DNA

<213> Zea mays

<400> 217

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atggtgccaa ggtcttgatg gtttggttc aaggtgtgct gagtactata agcagggggc 180  
gcgcttcgca aagtggagga ctgttgtag catcccttgt ggtccatctg cattagcagt 240  
caaggaagca gcatggggac ttgctcgata tgctgctatt gctc 284

<210> 218

<211> 285

<212> DNA

<213> Zea mays

<400> 218

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aatatcatgc ctggcatcaa ggttgacaag ggttagttc cattgcctgg atccaacaat 120  
gaatcatggt gccaaaggtct tgatgggttt tattcaaggt gtgctgagta ctataagcag 180  
ggggcgcgct tcgcaaagtg gaggactggt gtagcatcc cttgtggtcc atctgcatta 240  
gcagtcaagg aagcagcatg gggacttgct cgattgctgc tattg 285

<210> 219

<211> 267  
 <212> DNA  
 <213> Zea mays

<400> 219

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 tgttgtagc atcccttggg gtccatctgc attagctgtg aaggaagcag catggggact 120  
 tgctcgatat gctgctatcg ctcaggataa tgtcttagtg ccaattgtgg agccagagat 180  
 ccttcttgat ggagaccatg ggatcgaaag gactctcgag tggcagagaa gtgtggctga 240  
 ggtgtcttct actgcccaga caatgtc 267

<210> 220  
 <211> 83  
 <212> DNA  
 <213> Zea mays

<400> 220

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 aggccgactg tctgctagca tcc 83

<210> 221  
 <211> 277  
 <212> DNA  
 <213> Zea mays

<400> 221

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 tccttgctgc tgatgagtca actggcacca ttggcaagcg cttttccagc atcaatgtcg 120  
 agaacgtgga ggagaaccgg cgggctctcc gtgagctcct gttctgctgc cctgggtgccc 180  
 tccagtacat cagcgggtgtg atcctcttcg aggagaccct ctaccagaag accaaggatg 240  
 gcaagccttt tgtcgatgtc ctcaaggagg gaggcgt 277

<210> 222  
 <211> 203  
 <212> DNA  
 <213> Zea mays

<400> 222

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aagttggtcc tgccgatgga gaatcgagca gctccctttt tttgttctat caactatgct 120  
gtaattctgg ctatgtatcg gcaaaaacaa ttctatatgc tgagttggag tcggcaaaaa 180  
ttcatatatg ctgagttgga gac 203

<210> 223  
<211> 158  
<212> DNA  
<213> Zea mays

<400> 223

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gcggaaagta caaggatgag ctcatcaagg attgctgcct acattggcac ccctggcaag 120  
ggtatccttg ctgctgatga gtccactggc accattgg 158

<210> 224  
<211> 93  
<212> DNA  
<213> Zea mays

<400> 224

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cgctgttctc aagattggcc ctaatgagcc atc 93

<210> 225  
<211> 257  
<212> DNA  
<213> Zea mays

<400> 225

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ggggataaca tcttatacac aaagagcata tcttccttgg ctcatgcaaa aggtttactt 180  
gtggaagctg agttgggtag gctctcaggc tctgaagatg gcatgaccgt tgaagaatat 240  
gaagcaagat ttactga 257

<210> 226

<211> 268  
 <212> DNA  
 <213> Zea mays  
  
 <400> 226  
  
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 gaagcgggat ttgattcagt catggtggat ggttctcatc taactttagg ggataacatc 180  
 ttatacacia agagcgtatc ttccttggct catgcaaaag gtttacttgt ggaagctgag 240  
 ttgggtaggc tctcaggctc tgaagatg 268

<210> 227  
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 <213> Zea mays  
  
 <400> 227  
  
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 agaaggagaa cgtcgccgcc gcgcatgcca ctttcgtcat ccgctgcaag gccaaactccg 120  
 aggcgcgctt gggcaa 136

<210> 228  
 <211> 207  
 <212> DNA  
 <213> Zea mays  
  
 <220>  
 <221> unsure  
 <222> (1)..(207)  
 <223> unsure at all n locations  
  
 <400> 228  
  
 ggtggacaag ggccttgtcc cgctcgccgg ctccaacaac gagtcgtggt gccaggggct 60  
 ggacggcctg gcgtcccgcg aggcgcgcta ctaccaacia ggccgcgccc tccgccaaagt 120  
 gccccaccgt ggcaagaatc cttaacggcc cttccaagtt cgccgtcaag gagggcccctt 180  
 ggggcttgga acgttaggcc gcctttt 207

<210> 229  
 <211> 482

<212> DNA  
 <213> Zea mays  
  
 <220>  
 <221> unsure  
 <222> (1)..(482)  
 <223> unsure at all n locations  
  
 <400> 229  
  
 gtggggnnnn ccgacccac ctaaacnnn natctctctc cctctccgaa taaccggctg 60  
 gaccacgcg tccgggcact tgatcagtca aatgcaacat gtggcaagag gttatcatct 120  
 attggcttgc ggaacacata attgaaccgt caggcttaca ggcagctatt gctgacaact 180  
 gctgttcttg gtgaatatat cactggcgct attcttttctg aacgagaccc tttatcaatc 240  
 aactacagac ggcaagaagc ttgttgactg cttgaaagat cagaatatca tgcctggcat 300  
 caatgttgac aagggtttga ttccattgcc tggatccaac aatgaatcat ggtaccaaag 360  
 tcttgatggc ttggcttcaa ggcgtgctga ctactataag cagggtggcg gcttcgcata 420  
 gcgcattgact gttgctagca tccatcgtgg tgcattctgca ttatcagtca atgaatcatc 480  
 at 482

<210> 230  
 <211> 414  
 <212> DNA  
 <213> Zea mays  
  
 <400> 230  
  
 gtaaacctca ttatatcatt gcaaaggag gaatcacttc atctgatatt gctacaaagg 60  
 cgctggaagc taaacgtgcc aaagtcattg gacaagcatt agctgggtga cccttggtggc 120  
 agcttggtcc tgagagtaga tttcctgggg tcccttacat tgtttttctt ggtaattgtt 180  
 gtgataacag tgctcttgct aaagtgggtga aaagttgggc ttcccatctc agaagttcta 240  
 caaaagaaat tcttcttgat gcggagaatg gcggttatgc tgttggtgct ttcaatgtgt 300  
 ataaccttga gggaattgaa gctgttggtg cagcagcaga ggctgaaaag agtcctgcta 360  
 ttcttcagat tcatccgagt gctctaaagc aaggtggagt cccactggta gcat 414

<210> 231  
 <211> 355  
 <212> DNA



<213> Zea mays

<400> 231

attcactata accttgatac ctggtagata gccatgcttt atgcatatcg tattgcagat 60  
gagctcatca agaattgctga ctacattggc acccctgaca agggatcctt tgctgctgat 120  
gagtccactg gcaccattgg caagcgcctt tccagcatca atgtctagaa cgttgacgag 180  
aaccgcctg cctccctga gctcctattc tgctgcctg gtgctctcca gtacatcagc 240  
gggtgatcc tcttcgagga gaccctgtac cagaagacca aggatggcta gccttctgtc 300  
gatgtcctga acgagggagg cgttctccat agcatcaagg ttgacaaggg cacca 355

<210> 232

<211> 154

<212> DNA

<213> Zea mays

<400> 232

gtcctgccga tggagaatcg agcagccctt ttttttgggt ctatcaacta tgctgtaatg 60  
ctggctatgt atcggcaaaa acaattctat atgctgagtt ggagtcggca aaaattcata 120  
tatgctgagt tggagacagc aacttgtttg gatc 154

<210> 233

<211> 146

<212> DNA

<213> Zea mays

<400> 233

ggaggccatc ttcgtcgacc cggccctccg cgggaagtac tgcgtctgct tcgacccgct 60  
ggatggctcc tccaacatcg actgtggtgt ctcaatcgga acggtgtgtc actgtcactc 120  
ccggtggtgt ttcaaacctt cttacc 146

<210> 234

<211> 184

<212> DNA

<213> Zea mays

<400> 234

agcatccgaa gaagtactca gctcgctacg tgtgctcact ggtggctgat ttccaccgga 60

cgctcatata tggcggggtc gcatgaaccc aagggaccat ctgcggctgg tttatgaggc 120  
gaaccctctc agtttccttg ctgaacaggc tgggggtaga gggtcagatg gcaagatcag 180  
aatc 184

<210> 235  
<211> 183  
<212> DNA  
<213> Zea mays

<400> 235

agcgccagca agcgcagcag accaatctcc aacctcacgg gcgttcaggg cgccgtcaat 60  
gtgcagggcg aggaccagaa gccgctcgat gtcgtctcca acgaggtgtt ctccaactgc 120  
ctcaagtcga gcggg'gcac cggcgtgata cgctcggcgg cggaggacgt gcccgtagcg 180  
gtg 183

<210> 236  
<211> 342  
<212> DNA  
<213> Zea mays

<400> 236

tcagctcgag cttctgctcg aggtcagaga caatgacaac gtgaccttag aggatgtgct 60  
gcagcctgga acaaactgc ttgctgctgg ctactgcatg tacggaagtt catgtagact 120  
gtgctgagca ctgggaccac atcaatgagt tcactctoga tccttcctt ggagagttca 180  
ttttgactca tccagatatc aagggttaatg ataaaaacaa ctcgacactt cttttctatc 240  
ctggctgata gatacccctg gtttagcacta taaaacgaaa tgggtactact tgagtttggg 300  
tatcacgtgt tgtgcgtgct tcgttctttt cttgtgcaga ta 342

<210> 237  
<211> 309  
<212> DNA  
<213> Zea mays

<400> 237

ggaccagaag aagctcgatg tcgtctccaa cgaggtgttc tccaactgcc tcaagtcgag 60  
cgggcgcacc ggcgtgatcg cctcggagga ggaggacgtg cccgtagcgg tggagcagag 120

ctactccggc aactacatcg tcgtgttcga ccctctcgac ggctcctcca acatcgacgc 180  
cgccgtctcc actgggtcca tcttcggcat ctacaacccc aacgacgagt gcctcgccga 240  
cgtcgacgac aatgacaccc ttgattcggg ggagcagagg tgcacgtga acgtgtgcca 300  
gccggggag 309

<210> 238  
<211> 295  
<212> DNA  
<213> Zea mays

<400> 238

accagaagaa gctcgatgtc gtctccaacg aggtgttctc caactgcctc aagtcgagcg 60  
ggcgacccgg cgtgatcgcc tcggaggagg aggacgtgcc cgtagcgggtg gagcagagct 120  
actccggcaa ctacatcgtc gtgttcgacc ctctcgacgg ctctccaac atcgacgccg 180  
ccgtctccac tggctccatc ttcgcatct acaaccccaa cgacgagtgc ctgcccgcg 240  
tcgacgacaa tgacaccctt gattcgggtg agcagagggtg catcgtgaac gtgtg 295

<210> 239  
<211> 276  
<212> DNA  
<213> Zea mays

<400> 239

ctcaagtcca gcgggagcac cggcgtgatc gcctcggagg aggaggacgt gcccgtagcg 60  
gtggagcaga gctactccgg caactacatc gtcgtgttcg accctctcca cggctcctcc 120  
accatcgacg ccgccgtctc cactgctcca tcttcggcat ctacaacccc aacgacgagt 180  
gcctcgccga cgtcgacgac aatgacaccc ttgattcggg ggagcagagg tgcacgtga 240  
acgtgtgcca gccggggagc aacctgctgg ccgccg 276

<210> 240  
<211> 269  
<212> DNA  
<213> Zea mays

<400> 240

tcgagatccc caaggcgggc aagatctacg ccttcaacga gggcaactac gcgctctggg 60

acgacaagct gaagctgtac atggacagcc tcaaggagcc cggcgactcg gggaagccct 120  
 actccgcgcg gtacataggc agcctcgtcg gggacttcca ccgcactctt ctctacggag 180  
 ggatctacgg gtaccccagg gacaagaaga gcaagaacgg caagctgcgg cttctctacg 240  
 agtgcgcccc catgagcttc atcgtcgag 269

<210> 241  
 <211> 292  
 <212> DNA  
 <213> Zea mays

<400> 241

ctcggggaag ccctactccg cgcggtacat aggcagcctc gtcggcgact tccaccgcac 60  
 tcttctctac ggagggatct acgggtaccc cagggacaag aagagcaaga acggcaagct 120  
 gcggttctc tacgagtgcg ccccatgag cttcatcgtg agcaggccgg tggcaagggc 180  
 tctgacggcc accagagaat tcttgacatc acacctacag agatccacca aagagtgcct 240  
 ctgtacattg ggagcgtgga ggaagtggac aaggtggaga attcctggct tg 292

<210> 242  
 <211> 277  
 <212> DNA  
 <213> Zea mays

<400> 242

cgcgctctgg gacgacaaac tgaagctgta catggacagc ctcaaggagc ccggcgactc 60  
 ggggaagccc tactccgcgc ggtacatcgg cagcctcgtc ggcgacttcc accgcactct 120  
 tctctacgga gggatctacg ggtaccccag ggacaagaag agcaagaacg gcaagctgcg 180  
 gcttctctac gagtgcgccc ccatgagctt catcgtcgag caggccggtg gcaagggctc 240  
 tgacggccac cagagaattc ttgacatcac acctaca 277

<210> 243  
 <211> 268  
 <212> DNA  
 <213> Zea mays

<400> 243

cgggtaccca gggacaagaa gagcaagaac ggcaagctgc ggcttctcta cgagtgcgcc 60

cccatgagct tcatcgtcga gcaggccggt ggcaagggct ctgacggcca ccagagaatt 120  
 cttgacatca cacctacaga gatccaccaa agagtgcctc tgtacattgg cagcgtggag 180  
 gaagtggaca aggtggagaa attcctggct tgaatgccag agctctctca tcagatggac 240  
 tcccgaagac atcaagttta gggaggga 268

<210> 244  
 <211> 324  
 <212> DNA  
 <213> Zea mays

<220>  
 <221> unsure  
 <222> (1)..(324)  
 <223> unsure at all n locations

<400> 244

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 acctctcat cctcccactt gctcctctc tcccgccagc agngggcctc cctacgatgc 120  
 cgcctctcct tcctcggcca gcccagaagg cccggcaggg tcacggccca ggcgccggcc 180  
 gctaaggacg tgcggtgcat ggcggccgtg gacactactg cggcgtccac ggcggcggcg 240  
 gagacgagcc ccaagtcgag cagctacgag atcgtgacgc tcacgacgtg gctgctgcag 300  
 caggagcgga ccggcgcgat cgac 324

<210> 245  
 <211> 267  
 <212> DNA  
 <213> Zea mays

<400> 245

gagagtgtac gtgccaccag cagcagcagc agcagcaatg gccgccgccg ccgccacctc 60  
 ctcatctctc cacctgctcc tcctctcccg ccagcaggcg gcctccctac gatgccgcct 120  
 ctcttctctc ggccagccca gaaggcccg cagggtcacg gcccaggcgc cggccgctaa 180  
 ggacgtgcgg tgcattggcg ccgtggacac tactgcggcg tccacggcg cggcggagac 240  
 gagccccaag tcgagcagct acgagat 267

<210> 246  
 <211> 310

<212> DNA  
 <213> Zea mays  
 <400> 246  
 gtgtacgtgc cacaagcagc agcagcagca gcaatggccg ccgccgccgc cacctcctca 60  
 tcctcccacc tgctcctcct ctcccgccag caggcggcct ccctacgatg ccgcctctcc 120  
 ttctctggcc agcccagaag gcccggcagg gtcacggccc aggcgccggc cgctaaggac 180  
 gtgcgggtgca tggcgggccgt ggacactact gcggcggtcca cggcgggcgga ggagacgagc 240  
 cccaagtcga gcagctacga gatcgtgacg ctacacgacgt ggctgctgca gcaagagcgg 300  
 accggcgcgca 310

<210> 247  
 <211> 255  
 <212> DNA  
 <213> Zea mays  
 <400> 247  
 ccggaacccc gagtcccgcg gcgacttcac atccttctct cccacatcgt cctcggctgc 60  
 aagttcgtcg cctccgccgt caacaaggcc gggctcgccc agctgatcgg gtcgcgccgc 120  
 gagaccaacg tgcagggaga ggagcagaag aagctggacg tcctgtccaa cgaggtgttc 180  
 gtcaaggccc tcgtcagcag cggtcgcacc tccgtccttg tgtccgagga ggcgaggaag 240  
 caacgttcgt ggacc 255

<210> 248  
 <211> 313  
 <212> DNA  
 <213> Zea mays  
 <400> 248  
 gggatgtgcc tacagccaaa ttcgtgaaga aatgcaagta tcctgaggat gggttcaccgc 60  
 ctagatcctt gagatatatc ggaagtatgg ttgctgatgt ccatcgcacc ttactatacg 120  
 ggggcatatt tttgtacca gcagaccaga agagtccaaa cgggaaacta cgcgttctgt 180  
 atgaagtctt cccgatgtca ttcctgatgg aacaagctgg aggccaggct ttcacaggca 240  
 aacaacgggc ccttgaactt gctcccgcta aacttcacga cagatcccca gtgttcctcg 300  
 ggagctacga tga 313

<210> 249  
 <211> 272  
 <212> DNA  
 <213> Zea mays  
  
 <400> 249  
  
 cttgtggtcc ttgtgaatgg tttgcagtat ggttgctgat gtccatcgca ccttactata 60  
 cgggggcata tttttgtacc cagcagacca gaagagtcca aacgggaaac tacgcgttct 120  
 gtatgaagtc ttcccgatgt cattcctgat ggaacaagct ggaggccagg ctttcacagg 180  
 caaacaacgg gcgcttgaac ttgctcccgc taaacttcac gacagatccc cagtgttctt 240  
 cgggagctac gatgacgttg aggagatcaa ag 272

<210> 250  
 <211> 242  
 <212> DNA  
 <213> Zea mays  
  
 <400> 250  
  
 caagtatcct gaggatggtt caccgcctag atccttgaga tatatcgga gtatggttgc 60  
 tgatgtccat cgcaccttac tatacggggg catatTTTTTg taccagcag accagaagag 120  
 tccaaacggg aaactacgcg ttctgtatga agtcttcccc atgtcattcc tgatggaaca 180  
 agctggaggc caggctttca caggcaaaca acgggcgctt gaacttgctc ccgctaaact 240  
 tc 242

<210> 251  
 <211> 384  
 <212> DNA  
 <213> Zea mays  
  
 <400> 251  
  
 agactaaagc atagtatcat cagcaagggg gcccctttct gtaccagagc ctcagatcgt 60  
 gatttcgtca taagccacgc tgaattttat gccgtttcag attcgtggat aagtgaagt 120  
 atcctgaaga tggttcacgc cctagatccc tgagatatat cggtagtatg gttgctgatg 180  
 tccatcgcac cttactagac gggggcatat ttttgtaccc agcagaccag aagagtccag 240  
 acgggaaact acgcgttctg tatgaagtct tcccgatgtc attcctgatg gaacaagctg 300

gaggccaggc ttccacaggc aaacaaaggg tgtgtttcag ttccccgttc tcagacccca 360  
atccccaact gaaaaatctt gatg 384

<210> 252  
<211> 337  
<212> DNA  
<213> Zea mays

<220>  
<221> unsure  
<222> (1)..(337)  
<223> unsure at all n locations

<400> 252

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cccatcgcgt caggccacgc gtacagcatc tcgctagctt ttcttatgca ttcagatcct 120  
ctctctacaa gagaagttct taagcaagat ggaccgcccg gcagacacac acctgactga 180  
cctgatgacc atcactcagg tcattcttaa ctaacaaatc ccttacctct attgccgcta 240  
ctacttcacc attctgctct accacatcat cctatgctac aagtatatca cctccgtcag 300  
tcaacaaggc cgagctctcc cagctcatct gactcac 337

<210> 253  
<211> 221  
<212> DNA  
<213> Zea mays

<400> 253

cccacgcgtc cgcggcgcca tcgacaacga gatgaccatc gtgctggcca gcatatccac 60  
ggcgtgcaag cagatcgagg cgctggtgca gcgcgcgccc atctccaacc tcacgggcgt 120  
tcacggcgcc gtcaacgtgc atggcgagga ccagaagaag ctcgatgtcg tctccaacga 180  
ggtgttctcc aactgcctca agtcgagcgg gcgcaccggc g 221

<210> 254  
<211> 459  
<212> DNA  
<213> Zea mays

<220>  
<221> unsure



<222> (1)..(459)  
 <223> unsure at all n locations  
  
 <400> 254  
  
 cacgggcggtt cagggcgccg tcaacgtgca gggcgaggac cagaagaagc tcgatgtcgt 60  
 ctccaacgag gtgttctcca actgcctcaa gtcgagcggg cgcaccggcg tgatcgcttc 120  
 ggangaggaa ngaacttccc gttacgggtg gagcaagaac taactcccgg gaaactaaca 180  
 atccgtncgt ntttcaacct nctcgaangg ctctcaaaa atcaacnccg cggttctcna 240  
 cggggcncna tcttcggnat ctacaacccc aacnattnan tgcctcgccg anttnancaa 300  
 naatnanacc ctnaatncgt tgaacaaaag ntnaatcttn aacttttgca anccggggaa 360  
 ccanctngct ggcccnccgg gnaactgcat ttanncaacc tcggtgnntt ntccggctaa 420  
 centtggnac cgggggttta ncttntttna cctggaccc 459

<210> 255  
 <211> 422  
 <212> DNA  
 <213> Zea mays

<220>  
 <221> unsure  
 <222> (1)..(422)  
 <223> unsure at all n locations

<400> 255  
  
 ccatcgtgct ggccagcata tccacggcgt gcaagcagat cgcggcgctg gtgcagcgcg 60  
 cgcccatctc caacctcagc ggcgttcagg gcgccgtcaa cgtgcagggc gaggaccaga 120  
 agaagctcga tgtcgtctcc aacgaggtgt tctccaactg cctcaagtcg agcgggcgca 180  
 ccggcgtgat cgcctcggag gaggaggacg tgcccgtagc ggtggagcag agctactccg 240  
 gcaactacat cgtcgtgttc gaccctctcg atggctcctc caacatcgac gccgccgtct 300  
 ccaactggctc catcttcggc atctacaacc ccaacgatga gtgcctcgcc gacgtcgacg 360  
 acaatgacac ccttgattcg ggtggagcan aggtgcatcg tgaacgtgtn ccaaccgggg 420  
 ga 422

<210> 256  
 <211> 419  
 <212> DNA

<213> Zea mays

<400> 256

ctcaagtcga gcgggcgcac cggcgtgac gcctcggagg aggaggacgt gcccgtagcg 60  
gtggagcaga gctactccgg caactacatc gtcgtgttcg accctctcga cggctcctcc 120  
aacatcgacg ccgccgtctc cactggctcc atcttcggca tctacaaccc caacgacgag 180  
tgccctcgccg acgtcgacga caatgacacc gtgagtgcga attaattctca tctcccttac 240  
cttctttctg ttctgactgg ctcatcactg gacaattcta tctccaacac tacactacgt 300  
acgtacgcgc gcgcagcttg attcgggtga gcagagggtc atcgtgaacg tgtgccagcc 360  
ggggagcaac ctgctggccg ccggctactg catgtactcg agctcgggtga tcttcgtgc 419

<210> 257

<211> 430

<212> DNA

<213> Zea mays

<400> 257

gaccgcgaga gtgtacgtgc caccaggagc agcagcagca atggccgccg ccgccaccac 60  
ctcctcatcc tcccacttgc tcctactctc ccgccagcag gcggcctccc tacgatgccg 120  
cctctccttc ctcgccagc ccagaaggcc cggcagggtc acggcccatg cgccggccgc 180  
taaggacgtg cggtgcatgg cggccgtgga cactactgcg gcgtccacgg cggcggcgga 240  
gacgagcccc aagtcgagca gctacgagat cgtgacgctc acgacgtggc tgctgcaaca 300  
ggagcggacc ggcgcgatcg acaacgagat gaccatcgtg ctggccagca tatccacggc 360  
gtgcaagcag atcgcggcgc tgggtgcagcg cgcgcccatc tacaacctga cgggcgttca 420  
gggcgcgcgtc 430

<210> 258

<211> 313

<212> DNA

<213> Zea mays

<400> 258

accacgcgtc cggccacgcg tccgagtgga caaggtggag aaattcttga catcacacct 60  
acagagatcc accaaagagt gcctctgtac attgggagcg tggaggaagt ggacaagggtg 120

gagaaattcc tggcttgaat gtccctgctt catgccagag ctctctcatc agatggactc 180  
 cccaagacat caagtttagg gaggggaatat gtactctctc tttcccaccc caaataagtc 240  
 ttcttctgtct catatttcga taaatcaaac aatctcaatt ttgatctaata atatacacac 300  
 aacattaata ttt 313

<210> 259  
 <211> 296  
 <212> DNA  
 <213> Zea mays

<400> 259

gctgcgtcgt gccttcgcag cacgaatcgc tggatttcaa gtttgttttg aagcgaaaag 60  
 gtgataatcc tcaatacatt attgaggagg gacctaaccg accattgggt tgccagagaa 120  
 atgaatttga gatggggaat gcgttggtta aactcaacga agggaaggag gtacttgagt 180  
 gcaaggttca gggtgagaca gaaatgttat cccaattga cttggcggt agttggagag 240  
 ctcatcagga gtattttcag ccttcaaggg tgcgggggac tcacgatgtc actatc 296

<210> 260  
 <211> 298  
 <212> DNA  
 <213> Zea mays

<400> 260

caaaaggggc tgttcgttga caggggtggt ggctcttcta tgcttccaaa atcagccagt 60  
 gcatgctcct tggcatctgg gtttagtttt ggatcagcaa agacaatgcc agaagcagca 120  
 ggagctgttg cagctgcagc tgtagctgat cgtttgcatg ggtcaaagga ggaccggaag 180  
 ctggccattg ttttggttgg cctaccagct cgtggtaaaa ctttactgc agttaagctt 240  
 acaaggtacc ttcgttggtt gggccatgaa actagacatt tcaatgttgg gaagtatc 298

<210> 261  
 <211> 325  
 <212> DNA  
 <213> Zea mays

<400> 261

gcgccctcgc catggaaagg gagctcgcgt ccatgtgggt gctcagcttc gtcgtgccgc 60

cggaccatga aacactggac ttcaagttct tgctgaagcc caaagacgct gaaaccccg 120  
 gcatcatcga ggaaggaccc acacggctcc tcaccggagg catgctagag ggtgatgtga 180  
 gggttgcact gttcaagctc aatggagatg atgaggtgct cgagtttggg gtggtcaaca 240  
 aggcggacct tgtatcacccg cttgaacttg ctgcaagctg gaggggtgtac aaggagaact 300  
 ttcagccttc caaagttcgg gggat 325

<210> 262  
 <211> 245  
 <212> DNA  
 <213> Zea mays

<400> 262

cccacgcgtc cgagtgtgtg atgggatgac ttatgaagag ataaagaaaa tcatgcccga 60  
 ggaatttgag tcacgaaaga aggacaagct aagataccgc taccctcggtg gagaatctta 120  
 cctcgatgtg atacagagggc tggaaccgct catcatcgag ctagaacgcc agcgtgcacc 180  
 agtggttgtc atatctcatc aggctgtact gcgagcactg tatgcatatt tcgcggaccg 240  
 tcctt 245

<210> 263  
 <211> 268  
 <212> DNA  
 <213> Zea mays

<400> 263

cccacgcgtc cgcaacaaag tcctgattat gcagagcaaa cagattttga agctggtgta 60  
 caagatttca aagagcgatt gacctattat gaaaaggctc atgaaccggt ggaagaaggt 120  
 tcttacataa aaatgattga catggtagt ggggaagggg gccaaactaaa gattaatgac 180  
 ataagtgggt acttgccctg acggatcggt ttcttcttgg gtaactgtca tctgacacct 240  
 cgtcctatcc tgctaacaag acatgggtg 268

<210> 264  
 <211> 280  
 <212> DNA  
 <213> Zea mays

<400> 264

aaactcaacc ggagatggcg agctctggcg gaatctccga ccagctcttc gtctccgtca 60  
 agttagagag cccgcacctc gcggagctcg acctcgcccc ccacctcttc ggctcccacc 120  
 ctgtggctgg ctctgtgggac ccttgaagg ccctgccttt ggagcgggcg gccaccgccg 180  
 tgtgggagtt cagctgcgtc gtgccttcgc agcacgaatc gctggatttc aagtttgttt 240  
 tgaagcgaag aggtgataat cctcaatata ttattgaggg 280

<210> 265  
 <211> 302  
 <212> DNA  
 <213> Zea mays

<400> 265

cttgtcccta ggttgggtata tttgacgcaa caaacagcac aagaaagcga agatatatgc 60  
 taatgaaaat ggctgaaggt aactgtaaga ttatatTTTT ggagacaata tgtaatgata 120  
 caaacataat tgaagaaac atacggctga agatccaaca aagtccagac tatgctgaac 180  
 agctagatta tgaagctgga ctggaggact tcaaggaacg tttgattaat tatgaaaagg 240  
 tctacgagcc agtaggggaa ggttcttaca tcaaaatgat tgacatggta aaggggcaag 300  
 at 302

<210> 266  
 <211> 314  
 <212> DNA  
 <213> Zea mays

<400> 266

ggaagaatcg gtggagactc ttctttgagt gaggccggtg agctttattc aaggaagctt 60  
 gcgagctttg tggagaagcg actgaaatcc gagcggactg cctctatatg gactagcaca 120  
 ctccagagaa caatattaac agcacatcgg atcattggat ttccaaagat acaatggcgt 180  
 gctcttgatg agatcaatgc tggggtctgt gatgggatga catacgatga aataaagaaa 240  
 agtaaacctg aagaatatga atcacgaaga taagacaagc tgaggtatcg ttatccgaga 300  
 gggagatcct atct 314

<210> 267  
 <211> 320  
 <212> DNA

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<213>      Zea mays
<220>
<221>      unsure
<222>      (1)..(320)
<223>      unsure at all n locations

<400>      267

ctcatgtaga  tgcgactaca  caccatagtc  gagatacaaa  tgggcgtcac  ggggtgtggaa   60
gagaagaggt  acaaactcat  ggactgagtg  agtacatagg  agcagctact  tgggtgtgtc   120
atacatcgag  tacacataac  acagaagcgt  ttgcccttct  ctctctctcc  acacggtggt   180
cagtgttaatt gctctggaaa  agagacatgt  tgaacattgt  aaaggaaaaa  ctaataaggg   240
actgtaaaag  tggcatgcgt  actgtaacgg  ataagngata  cagactgggg  tgctcaatgc   300
ttattcagag  catattcgtc                                     320

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accagtaccc ttc

253

<210> 270

<211> 260

<212> DNA

<213> Zea mays

<220>

<221> unsure

<222> (1)..(260)

<223> unsure at all n locations

<400> 270

gaaaagggtct acgagccagt aggggaaggt tcttacatca aaatgattga catggtaaag 60

gggcaagatg gtcagttaca ggtaaataat atcagcgggt atctccctgg gaggattgtc 120

ttcttcttgg tgaactctca tcttacacca cgacctatct tgcttaccag gcatgggtgag 180

agtttacata atggttagagg aagagtcggt ggtgatacag ttctaagtga nactggcgaa 240

ctttatgcaa agaaactagc 260

<210> 271

<211> 243

<212> DNA

<213> Zea mays

<400> 271

cgggtgtgga agagaagagg taaaaactca tggactgaat gaatacataa aagcagctgg 60

ttggctgttt catacagcaa gtacacataa cacagaagcc tttcccttc tctctctctc 120

tccacacggt gttcagtgtg atttctttgg aaaaaagaca tggtgaacat tgtaaagaaa 180

aaactaataa ggaactgtaa aaatggcatg cttactgtaa cgaataggga atacagactg 240

ggg 243

<210> 272

<211> 400

<212> DNA

<213> Zea mays

<400> 272

ccgactcgta cgtcatgcaa caaaaccctt taatgatgga aagtacctcc cggttcaggt 60

gggacctata aactgggttat tttttcgcga ctacaggaag gtgtggaagt acttcacgaa 120  
 gttgattgct tagcaactgg aagatatgct atcattgatg cactaagggtg gaacggttga 180  
 attatcgatg ccacatacag cacacgaata ccgaagaaca tgctgatgaa aatggctgaa 240  
 ggaaaatgtc agatcatatt tctgtgaaca ctatgtaatg accaacaatgt tcttgagaga 300  
 actatacaat cgaaagttca acaaagacct gactatgcat agcatacaga atatgaagct 360  
 ggcgtacaag atttcaaata ccgattggcc tattatgaaa 400

<210> 273  
 <211> 454  
 <212> DNA  
 <213> Zea mays

<400> 273

gacctttaca gcagctaaac ttacaagata tctccgatgg ttaggtcatg aaacaaaaca 60  
 cttcaatgtt ggaaagtacc gccggctcaa gcatggaact aatcagactg ctgatttctt 120  
 tcgtgggatg aacagggagg gtgtggaggc acgtaacgag gtggctgcat tagcaatgga 180  
 agatatgcta tcttgatgac aggaggggtg tcagggttgg attttcgatg ccacaaacag 240  
 cacaagaata cggaggaaca tgctgatgaa aatggctgaa ggaaaatgta agatcatctt 300  
 tttggaaaca ttatgtaatg accaagatgt tcttgagaga aatatacgat tgaaagttca 360  
 acaaagtcct gattatgcag agcaaacaga ttttgaagct ggtgtacaag atttcaaaga 420  
 gcgattgacc tattatgaaa aggtctatga accg 454

<210> 274  
 <211> 442  
 <212> DNA  
 <213> Zea mays

<400> 274

atggggaatg cgttgtttta actcaacgaa tggaaggagg tacttgagtg caagggttag 60  
 gtggagacag aaatgttata ccattttgac ttggcggcta gttggagagc tcatcaggag 120  
 tatttttcagc cttcaagggt gcgagggact cacgatgtca ctatcaaccc tggggttagaa 180  
 ggcagggcca agaatggctt cgcttctggt ttgaagcttg atttagacaa gtatgtagtt 240  
 ccaacaccaa acatgggctc aggtgttggt tatgcagcta gtttgactga aaatccacgc 300



tcattattgc aaactgcgag ttcctcatac aatgatacca caaaggacat tttgcacaac 360  
tcaactaaag gcgattcatc cttgaatcac tatgttaaca ctatgaagag cacaattgga 420  
gggcatgcat cgtcactgga ag 442

<210> 275  
<211> 403  
<212> DNA  
<213> Zea mays

<400> 275

atgtatgcat atttcgcagt ccgtcctttg agagaagttc cagagatata gatgccacta 60  
gacaccataa tcgagatata aatgggcgtc actgggtgtg aagagaagag gtacaaactc 120  
atggactgaa tgaatacata aaagcagctg gttggctgtt tcatagagca agtacacata 180  
acatagaagc cttttccctt ctcactctct ctccacacgg tgttcattgt aatttctttg 240  
gaaaaaagac atgttgaaca atgtaaacaa acaactaata acgaactgta cgaatggcat 300  
gcttactgta acgaataacg aatacatact gggggtcacc aatgcgtagt cagaaacata 360  
ttccgtcaaa gaacatagcg aaatgctgca gaagaaacgc ccg 403

<210> 276  
<211> 300  
<212> DNA  
<213> Zea mays

<400> 276

gatttattga caacaccgat cctgctggga ttgatcatca aattgctcaa ctaggacctg 60  
aactggcaac tactcttgta attgtcattt ctaagagcgg aggcacacct gaaacccgca 120  
atgggtctact agaagtacag aaagccttca gagatgcggg gctgcaattc tcgaaacagg 180  
gtgttgcaat tactcaagaa aattctctgt tggataaacac tgctagaata gagggatggt 240  
tagctcgggt tcctatgttt gattgggttg gtggtaggac ttcagaaatg tctgctgtgg 300

<210> 277  
<211> 208  
<212> DNA  
<213> Zea mays

<400> 277

cgccaacccc gacgaggggc gcatggtggg ccactactgg ctccgcgacc cggccctcgc 60  
 tcccaactcc ttcctccgga acaagatcga gaccgcactc gacaaaatcc tcgccttctc 120  
 ccaagatgtc atctctggaa agattctttc cccatctggt cgtttcactt caattctctc 180  
 tataggaatc ggaggggtcag ctttgggc 208

<210> 278  
 <211> 267  
 <212> DNA  
 <213> Zea mays

<400> 278

cccacgcgtc cgataaact gccagaatag agggatggtt agctcggttt cctatgtttg 60  
 actgggttgg tggtaggact tcagaaatgt cagctgttgg tttacttcca gctgcattgc 120  
 agtgtattga tatcaaggaa atgctatttg gtgcagcttt aatggatgag gaaacccgga 180  
 aactgtggt taaagcaa atccagcagcat tgcttgcatt atgttggtat tgggcatcgg 240  
 aagggatagg caaaaaggat atggttg 267

<210> 279  
 <211> 258  
 <212> DNA  
 <213> Zea mays

<400> 279

agcttctcgc ttttttaacc acagttgtca acctaactgt cggctggaga aatggaatca 60  
 gagggctctgc ttatgggcct caatttggtg ctaaaccact tgcacctgat aaccctccac 120  
 tgaaggtaag atttattgac aacatcgatc ctgggtgggat tgatcatcaa attgctcaac 180  
 taggatctca actggcaact agctactctt gtaattgtca tttctaagaa cacttgaggg 240  
 agggggaact gctgaagc 258

<210> 280  
 <211> 229  
 <212> DNA  
 <213> Zea mays

<400> 280

gcagaatgtg aacagggcca caactgggat tccttgaaat gttgatccag ttgacgttgc 60

acgaagcatt aaagatttgg atccagaaac cactctggtg gtggctgtat caaagacatt 120  
 cacaacagct gaaacaatgt taaatgctcg aactcctaag gagtggatcg tttcttctct 180  
 tgggacacag gctgttgcca tacatatgat tgctgtcagc actaatctt 229

<210> 281  
 <211> 337  
 <212> DNA  
 <213> Zea mays

<400> 281

aggttggaca gcttttatcc atctatgagc accggattgc agttcagggc ttcatatggg 60  
 gaattaactc atttgaccca tggggagtgg acctagggaa gtcactcgct tctcaagtga 120  
 ggaaacagct gcatggaacc cggatggaag gaaagcctgt tgagggtttt aaccacagca 180  
 cttcaagttt gcttgacga tatcttgctg tcaagccatc caccctgat gatactaccg 240  
 tgctgccgaa ggtgtaatta ctcagttgtt tttgacatgc caattgctga gctctgactt 300  
 ggcaagggtg agcataagtc tttcttcatt ttgggag 337

<210> 282  
 <211> 248  
 <212> DNA  
 <213> Zea mays

<400> 282

gcggggctgc aattctcgaa acagggtgtt gcaattactc aagaaaattc tctgttggat 60  
 aacactgcta gaatagaggg atggttagct cggtttcta tgtttgattg gggttggtgt 120  
 aggacttcag aaatgtctgc tgtgggttta cttccagctg cattgcaggg tattgatatc 180  
 aaggaaatgc tagctggtgc agctttaatg gatgaagaaa cccggaacac tgtggttaaa 240  
 gaaaatcc 248

<210> 283  
 <211> 288  
 <212> DNA  
 <213> Zea mays

<400> 283

gttgcaatca ctcaagaaaa ttctctgttg gataaactg ccagaataga gggatgggta 60

gctcgggtttc ctatgtttga ctgggttggt ggtaggactt cagaaatgtc agctgttggt 120  
 ttacttccag ctgcattgca gggatttgat atcaaggaaa tgctagttgg tgcagcttta 180  
 atggatgagg aaaccgga cactgtgga tcacattatt aataacacgg acaacttgca 240  
 gtgatggcat gattatctat atgtgtcatg tcaacatggt tatctttt 288

<210> 284  
 <211> 243  
 <212> DNA  
 <213> Zea mays

<400> 284

tgatgcgggt ctgcaattct cgaaacaggg tgttgcaatc actcaagaaa attctctggt 60  
 ggataacact gccagaatag agggatgggt agctcggttt cctatgtttg actgggttggt 120  
 tggtaggact tcagaaatgt cagctgttggt tttacttcca gctgcattgc agggatttga 180  
 tatcaaggaa atgctagttg gtgcagcttt aatggatgag gaaaccgga acactgtggt 240  
 taa 243

<210> 285  
 <211> 235  
 <212> DNA  
 <213> Zea mays

<400> 285

cagaaagcct tcagagatgc agggctgcaa ttctcgaaac aggggtgtgc aattactcaa 60  
 gaaaattctc tgttgataa cactgctaga atagagggat ggtagctcg gtttcctatg 120  
 tttgattggg ttggtggtag gacttcagaa atgtcagctg tgggtttact tccagctgca 180  
 ttgcagggtta ttgatatcaa ggaaatgcta gctggtgcag cttaaatgga tgagg 235

<210> 286  
 <211> 296  
 <212> DNA  
 <213> Zea mays

<400> 286

cgacagaatc ctgccttct ctcaagatgt cgtctctgga aagattcttt ccccatctgg 60  
 tcgtttcact tcaattctct ctataggaat cggagggtca gctttgggcc ctcaatttgt 120

tgctgaggca cttgcgcctg ataaccctcc actgaagata agatttattg acaacaccga 180  
tccctgctggg attgatcatc aaattgctca actaggacct gaactggcaa ctactcttgt 240  
aattgtcatt tctaagagcg gaggcacacc tgaaacccgc aatgggctac tggaag 296

<210> 287  
<211> 228  
<212> DNA  
<213> Zea mays

<400> 287

gaaagattct ttccccatct ggtcgtttca cttcaattct ctctatagga atcggagggt 60  
cagctttggg ccttcaattt gttgccgagg cacttgcacc tgataaccct ccaactgaaga 120  
taagatttat tgacaacaca gatcctgctg ggattgatca tcaaattgct caactaggac 180  
ctgaactggc aactactcgt gaaagtgaca tttctaagag cggcggca 228

<210> 288  
<211> 304  
<212> DNA  
<213> Zea mays

<400> 288

cccacgcgtc cgccgcactc gacagaatcc tcgccttctc tcaagatgtc gtctctggaa 60  
agattctttc cccatctggg cgtttcactt caattctctc tataggaatc ggagggtcag 120  
ctttgggccc tcaatttggt gctgaggcac ttgcgcctga taaccctcca ctgaagataa 180  
gatttattga caacaccgat cctgctggga ttgatcatca aattgctcaa ctaggacctg 240  
aactggcaac tactcttgta attgtcattt ctaagagcgg aggcacacct gaaacccgca 300  
atgg 304

<210> 289  
<211> 273  
<212> DNA  
<213> Zea mays

<400> 289

ctttatgcaa atgaccggga gtctatctct gttactgtgc aagaggtaac tcctagagct 60  
gttgagcac tgattgcact ttatgaacgt gctgtgggga tttatgcttc tttggtaaat 120

atcaatgcct atcatcagcc tgggtgttgag gctgggaaaa aggagcagg agaagtattg 180  
gcccttcaga aaagggttct gactgtatta aaggaggcca tctgcgagaa ccctactgag 240  
ccattgactc tagatgaaat tgcagatcgc tgc 273

<210> 290  
<211> 322  
<212> DNA  
<213> Zea mays

<400> 290

ctatcatcaa cctggtgttg aggctgggaa aaaggcagca ggagaagtgt tggcccttca 60  
gaaaaggggtg ctgactgtat taaatgaggc aacctgcaag gacccttgtg agccattgac 120  
tatagatgaa attgcagatc gctgccattg ccctgaagat attgagatga tctacaaaat 180  
agtcacgac atggctgcta acgacagagc aatcatagca gaaggcagct gtggctctcc 240  
tcgcagcgtt aaggtgtacc tcggtgaatg caatgtagac gaagacttgc aggccgcgta 300  
ggttccgagc ctggatccgt gt 322

<210> 291  
<211> 264  
<212> DNA  
<213> Zea mays

<400> 291

atcaacctgg tgttgaggct gggaaaaagg cagcaggaga agtgttggcc cttcagaaaa 60  
gggtgctgac tgtattaaat gaggcaacct gcaaggaccc ttgtgagcca ttgactatag 120  
atgaaattgc agatcgtgc cattgccctg aagatattga gatgatctac aaaatagtcc 180  
agcacatggc tgctaacgac agagcaatca tagcagaagg cagctgtggc tctcctcgca 240  
gcgttaaggt gtacctcggt gaat 264

<210> 292  
<211> 310  
<212> DNA  
<213> Zea mays

<400> 292

cggacgcgtg gtttgagtag atatttgcaa caacttgtca tggaatctct tggaaaagaa 60

ttcgacctgg atggcaaccg tgттаатсaa gggctaactg tatatggtaa caaaggaagc 120  
 actgaccagc atgcttacat tcagcagctg agagaaggctg tacaaaactt ctttggtacg 180  
 tttattgagg tcttgcgtag caggcctgct ggacatgatt ggagacttga acctggagtc 240  
 acgtgtgggtg actatттgtt tgggatgттg cagggaaccc gttctgctct ttatgcaaat 300  
 gaccgggagt 310

<210> 293  
 <211> 295  
 <212> DNA  
 <213> Zea mays

<400> 293

gttgcttttg agtagatatt tgcaacaact tgtcatggaa tctcttggga aagaatttga 60  
 tctggatggc aaccgggtaa atcaagggtc atctgtatat ggaaacaaag gaagtactga 120  
 ccagcacgct tacattcagc agctgagaga aggtgtacac aacttctttg ttacttttat 180  
 cgaggctcttg cgtgacaggc ctgctggтca tgattgggag cttgaacctg gagtсacatg 240  
 tggtgactat ttgtttggga tgттgсaggg aacacgttct gctctttatg caaat 295

<210> 294  
 <211> 293  
 <212> DNA  
 <213> Zea mays

<400> 294

acaaaggaag cactgaccag cacgcttaca ttcagcagct gagagaaggт gtacacaact 60  
 tctttgttac ttttatcgag gtcttgсtg acaggcctgc tggтcatgat tgggagcttg 120  
 aacctggagt cacatgtggт gactatттgt ttaggatgтт gcagggaaca cgttctgctc 180  
 tttatgcaaa tgaccgtgaa tctatctctg ttactgtgca agaggtaact cctagagctg 240  
 ttggagcact ggttgсactt tatgaacgtg ctgtggggct ttatgcttct ttg 293

<210> 295  
 <211> 281  
 <212> DNA  
 <213> Zea mays

<400> 295

ggtgtacaaa acttctttgt tacgtttatt gaggtcttgc gtgacaggcc tgctggacat 60  
 gattgggagc ttgaacctgg agtcacgtgt ggtgactatt tgtttgggat gttgcaggga 120  
 acccgttctg ctctttatgc aaatgaccgg gagtctatct ctgttactgt gcaagaggta 180  
 actcctagag ctggtggagc actgattgca ctttatgaac gtgctgtggg gatttatgct 240  
 tctttggtaa atatcaatgc ctatcatcag cctgggtgttg a 281

<210> 296  
 <211> 263  
 <212> DNA  
 <213> Zea mays

<400> 296

ccggaacact gtggttaaag aaaatccagc agcattgctt gcattatggt ggtattgggc 60  
 atcagaaggg ataggcaata aggatatggt tgtacttcct tacaaggata gtttgttgct 120  
 tttgagtaga tatttgcaac aacttgtcat ggaatctctt gggaaagaat ttgatctgga 180  
 tggcaaccgg gtaaatacaag ggctatctgt atatggaaac aaaggaagca ctgaccagca 240  
 cgcttacatt cagcagctga gag 263

<210> 297  
 <211> 300  
 <212> DNA  
 <213> Zea mays

<400> 297

cggacgcgtg gtgctagctg gtgcagcttt aatggatgag gaaaccgga aactgtggt 60  
 taaagaaaat ccagcagcat tgcttgcatt atgttgctat tgggcatcag aagggatagg 120  
 caataaggat atggttgtagc ttccttaciaa ggatagtttg ttgcttttga gtagatattt 180  
 gcaacaactt gtcattggaat ctcttgggaa agaatttgat ctggatggca accgggtaaa 240  
 tcaagggcta tctgtatatg gaaacaaagg aagcactgac cagcagcgtt acattcagca 300

<210> 298  
 <211> 313  
 <212> DNA  
 <213> Zea mays

<400> 298



cccacgcgtc cgcccacgcg tccgggggat tgatatcaag gaaatgctag ctgggtgcagc 60  
 tttaatggat gaagaaaccc ggaacactgt ggttaaagaa aatccagcag cattgcttgc 120  
 attatgttgg tattgggcat cagaagggat aggcaataag gatatggttg tacttcctta 180  
 caaggatagt ttgttgcttt tgagtagata tttgcaacaa cttgtcatgg aatctcttgg 240  
 gaaagaattt gatctggatg gcaaccgggt aaatcaaggg ctatctgtat atggaaacaa 300  
 aggaagtact gac 313

<210> 299  
 <211> 298  
 <212> DNA  
 <213> Zea mays

<400> 299

gatagtttgt tacttttgag tagatatttg cctatccctt ccgatgccca ataccagcag 60  
 cattgcttgc attatgttgg tattgggcat cggaagggat aggcaaaaag gatatggttg 120  
 tgcttcctta taaggatagt ttgttacttt tgagtagata tttgcaacaa cttgtcatgg 180  
 gatctcttgg aaaagaattc gacctggatg gcaaccgtgt taaacaaggg ctaactgtat 240  
 atggtaacaa aggaagcact gaccagcatg cttacattca gcagctgaga gaaggtgt 298

<210> 300  
 <211> 274  
 <212> DNA  
 <213> Zea mays

<400> 300

gaggtcttgc gtgacaggcc tgctggatcat gattgggagc ttgaacctgg agtcacgtgt 60  
 ggtgactatt tgtttgggat gttgcaggga acccgttctg ctctttatgc aaatgaccgg 120  
 gagtctatct ctgttacgtg caagaggtaa ctccatagagc tgttggagca ctgatttcac 180  
 tttatgaacg tgctgtgggg atttatgctt ctttggtaaa tatcaatgcc tatcatcagc 240  
 ctggtgttga ggctgggaaa aaggcagcag gaga 274

<210> 301  
 <211> 284  
 <212> DNA  
 <213> Zea mays

<400> 301

cagctgcatt gcaggggtatt gatatacaagg aaatgctagc tgggtgcagct ttaatggatg 60

aggaaacccg gaacactgtg gttaaagaaa atccagcagc attgcttgca ttatgttggg 120

attgggcatc agaagggata ggcaataagg atatggttgt acttccttac aaggatagtt 180

tgttgctttt gagtagatat ttgcaacaac ttgtcatgga atctcttggg aaagaatttg 240

atctggatgg caaccgggta aatcaaggct atctgtatat ggaa 284

<210> 302

<211> 306

<212> DNA

<213> Zea mays

<400> 302

cggacgcgtg gtgctagctg gtgcagcttt aatggatgag gaaacccgga aactgtggg 60

taaagaaaat ccagcagcat tgcttgcatc atactgggtat tgggcatcag aagggatagg 120

caataaggat atggttgtagc ttccttataa ggatagtttg ttgcttttga gtagatattt 180

gcaacaactt gtcattggaat ctcttgggaa agaatttgat ctggatggca accgggtaaa 240

tcaagggcta tctgtatatg gaaacaaagg aagcactgac cagcacgctt acattcagca 300

gctgag 306

<210> 303

<211> 271

<212> DNA

<213> Zea mays

<400> 303

cccacgcgtc cgcccacgcg tccgcccacg cgtccgcgag gtcttgcggtg acaggcctgc 60

tgggtcatgaa tgggagcttg aacctggagt cacatgtggg gactatttgt ttgggatggt 120

gcaggggaaca cgttctgctc tttatgcaaa tgaccgtgaa tctatctctg ttactgtgca 180

agaggtaact cctagagctg ttggagcact ggttgcaact tatgaacgtg ctgtggggct 240

ttatgcttct ttggtaaata tcaatgccta t 271

<210> 304

<211> 228

<212> DNA

<213> Zea mays  
 <400> 304  
 cggacgcgtg ggggtgtaca caacttcttt gttacgttta ttgaggtctt gcgtgacagg 60  
 cctgctggtc atgattggga gcttgaacct ggagtcacgt gtggtgacta tttgtttggg 120  
 atgttgacagg gaaccgcttc tgctctttat gcaaatgacc gggagtctat ctctgttact 180  
 gtgcaagagg taactcctag agctgttgga gcactgattg cactttat 228

<210> 305  
 <211> 275  
 <212> DNA  
 <213> Zea mays  
 <400> 305  
 tgggtgtacac aacttctttg ttacttttat cgaggtcttg cgtgacaggc ctgctgggtca 60  
 tgattgggag cttgaacctg gagtcacatg tggtgactat ttgtttggga tgttgacagg 120  
 aacacgttct gctctttatg caaatgaccg tgaatctatc tctgttactg tgcaagaggt 180  
 aactcctaga gctgttgagg cactggttgc actttatgaa cgtgctgtgg ggctttatgc 240  
 ttcttggtaa atatcaatgc tatcatcaac tgggtg 275

<210> 306  
 <211> 203  
 <212> DNA  
 <213> Zea mays  
 <400> 306  
 tgttgtactt ccttacaagg atagtttggt gcttttgagt agatatttgc aacaacttgt 60  
 catggaatct cttgggaaag aatttgatct ggatggcaac cgggtaaatc aagggtatc 120  
 tgtatatgga aacaaaggaa gcactgacca gcacgcttac attcagcagc tgagagaagg 180  
 tgacacaact tctttgttac ttt 203

<210> 307  
 <211> 285  
 <212> DNA  
 <213> Zea mays

<220>  
 <221> unsure

<222> (1)..(285)  
 <223> unsure at all n locations  
 <400> 307  
 gttgtcaggg tattgatatc aaggaaatgc tagctgggtgc agctttaatg gatgaagaaa 60  
 cccggaacac tgtgggttaa gaaaatccag cagcattgct tgcattatgt tggatttggg 120  
 catcagaagg gataggcaat aaggatatgg ntgtacttcc ttacaaggat agttttgttgc 180  
 ttttgagtag atatttgcaa caacttgtca tggaatctct tgggaagaat tgatctggat 240  
 gcaaccggta aatcaaggct atctgatatg aaacaaagaa gactg 285  
  
 <210> 308  
 <211> 267  
 <212> DNA  
 <213> Zea mays  
 <400> 308  
 tatcttgctg tcaagccatc caccctgtat gatactaccg tgctgccgaa gtgtaattac 60  
 tcagttgttt ttgacatgcc aattgctgag ttctgacttg gcaagggtga gcataagtct 120  
 ttcttcattt tgggagttat cacagagcca gtttggcagt gctgtagttt tggttttacc 180  
 tactctttgt agaagaaaag tgaagagtgg atattatgga acaaaatata tacctacggc 240  
 agcacgcagc atgatgaaac atattta 267  
  
 <210> 309  
 <211> 240  
 <212> DNA  
 <213> Zea mays  
 <400> 309  
 gtctcccccg accggcgatc gctatcgact tgtagcggaa gccatggcgt cggcagcgt 60  
 aatctgcggc acggagcagt ggaaggccct ccaggcgcac gtcggcgca ttcagaagac 120  
 gcacctgcgc gacctgatgg ccgacgccga ccgatgcaag gcaatgacgg ctgagtatga 180  
 agggatcttt ctggattact cgagacagca ggcgactggg gaaacatgga gaagccctta 240  
  
 <210> 310  
 <211> 292  
 <212> DNA  
 <213> Zea mays

<400> 310

caaaatccgg aggaactccc aggaggcgaa aagcagatcc gtctcccccg agccccgacc 60

ggcgatcgct atcgacttgt agcggaagcc atggcgctcg cagcgctaata ctgcggcacg 120

gagcagtgga aggccctcca ggcgcacgtc ggcgcgattc agaagacgca cctgcgcgac 180

ctgatggccg acgccgaccg atgcaaggca atgacggctg agtatgaagg gatctttctg 240

gattactcga gacagcaggc gactggtgaa acatggagaa gctcttaaat tg 292

<210> 311

<211> 320

<212> DNA

<213> Zea mays

<400> 311

ggcaagcaaa cgagcggcgg gacggctagc ccgcaatata aaatccggag gaactcccag 60

gaggcgaaaa gcagatccgt ctccccgag ccccgaccgg cgatcgctat cgacttgtag 120

cggaagccat ggcgtcggca gcgctaata gcggcacgga gcagtggaag gccctccagg 180

cgcacgtcgg cgcgattcag aagacgcacc tgcgcgacct gatggccgac gccgaccgat 240

gcaaggcaat gacggctgag tatgaaggga tctttctgga ttactcgaga cagcaggcga 300

ctggtgaaac catggagaag 320

<210> 312

<211> 278

<212> DNA

<213> Zea mays

<400> 312

caccgtcttc cggccgtcca ccgtttccag cacacagggc aaaggcaagc aaacgagcgt 60

ggggacggct agcccgcaat acaaaatccg gaggaactct caggaggcga aaagcagatc 120

tgtctcccc gaccggcgat cgctatcgac ttgtagcgga agccatggcg tcggcagcgc 180

taatctgcgg cacggagcag tggaaggcac tccaggcgca cgtcggcgcg attcagaaga 240

cgcaactgcg cgacctgatg gccgacgccg accgatgc 278

<210> 313

<211> 105

<212> DNA  
 <213> Zea mays  
 <400> 313  
 caaaatccgg aggaactccc aggaggcgaa aagcagatcc gtctcccccg agccccgacc 60  
 ggcgatcgct atcgacttgt agcggaagcc atggcgtcgg cagcg 105

<210> 314  
 <211> 267  
 <212> DNA  
 <213> Zea mays  
 <400> 314  
 acccgatcaa gctgtgggag cgctacgtcg agtgggtcta ccagcacaag gagctcggca 60  
 tcttcgtcga cgtcagccgg atggggttca cggaggagtt cctgcggcag atggagccgc 120  
 ggatgcagca ggccttcgtc gacatgcggg agctcgagaa gggcgccatc gccaaacccg 180  
 acgaggggtcg catggtgggc cactactggc tccgcgaccc ggccctcgct cccaactcct 240  
 tcctccggaa caagatcgag accgcac 267

<210> 315  
 <211> 325  
 <212> DNA  
 <213> Zea mays  
 <400> 315  
 tgccatattc tcaggcactt gagaagttgg caccacatat acagcagctt agcatggaga 60  
 gtaacgggaa ggggtgtttcc attgatggcg cccaactttc ctttgagaca ggtgaaattg 120  
 attttggtga acctcgaact aatggccagc acagcttcta tcaattaatc catcagggaa 180  
 gggttatccc ttgcgacttt attggtgttg ttaaaagtca gcagcctgtt tacttgaaag 240  
 gggaaactgt gagtaatcat gatgagctta tgtccaattt ctttgcccaa cctgatgctc 300  
 ttgcttatgg aaagactcct gaaca 325

<210> 316  
 <211> 316  
 <212> DNA  
 <213> Zea mays  
 <400> 316

tccagctagg gcaatattgc catattctca ggcacttgag aagttggcac cacatataca 60  
 gcagcttagc atggagagta acggaaggg tgtttccatt gatggcgccc aactttcctt 120  
 tgagacaagt gaaattgatt ttggtgaacc tggaactaat ggccagcaca gcttctatca 180  
 attaatccat caggaaggg ttatcccttg cgactttatt ggtggtgta aaagtcagca 240  
 gcctgtttac ttgaaagggg aaactgtgag taatcatgat gagcttatgt ccaatttctt 300  
 tgcccaacct gatgct 316

<210> 317  
 <211> 300  
 <212> DNA  
 <213> Zea mays

<220>  
 <221> unsure  
 <222> (1)..(300)  
 <223> unsure at all n locations  
 <400> 317

atcaaagaca ttcacaacag ctgnaaaca tggttaaagtc tcgaactctt aaggagtggg 60  
 tcgtttcttc tcttgggcca caggctgttg ccaaacatat gattgctgtc agcactaatc 120  
 ttaagcttgt gaaggagttt ggaattgacc caaacaatgc ttttgctttt tgggactggg 180  
 ttggcgccg ttatagtgtt tgcagtgtg ttggcggttct gccattatct cttcagtatg 240  
 gctttccaat tgtccagaaa tttttggagg gagcttccag tatcgacaac cacttctact 300

<210> 318  
 <211> 334  
 <212> DNA  
 <213> Zea mays

<400> 318

ctcatgatga gcttatgtcc aatttctttg cccaacctga tgctcttgct tatggaaaga 60  
 ctctgaaca gttgcacagt gagaaagttc cagataatct tatccctcat aagactttta 120  
 agggcaaccg gccatcacta agtttgcttc tgccactact atctgcatat gaggttggac 180  
 agcttttata catctatgag caccggattg cagttcaggg cttcatatgg ggaattaact 240  
 catttgacca ctagggagtg gagctaggga agtcactcgc ttctcaagtg aggaaacagc 300

tgcatggaac ccg gatggaa ggacacctgt tgag

334

<210> 319

<211> 279

<212> DNA

<213> Zea mays

<400> 319

ggtgaacctg gaactaatgg ccagcacagc ttctatcaat taatccatca gggaagggtt 60

atcccttgcg actttattgg tggtgttaaa agtcagcagc ctgtttactt gaaaggggaa 120

actgtgagta atcatgatga gcttatgtcc aatttctttg cccaacctga tgctcttgct 180

tatggaaaga ctctgaaca gttgcacagt gagaaagttc cagaaaatct tatccctcat 240

aagactttta agggcaaccg gccatcacta agtttgctt 279

<210> 320

<211> 274

<212> DNA

<213> Zea mays

<400> 320

tgcaaagtgt gatccagttg acgttgacag aagcattaata gatttggatc cagaaaccac 60

tctgggtggtg gttgtatcaa agacattcac aacagcggaa acaatgttaa atgctcgaac 120

tcttaaggag tggatcggtt cttctcttgg gccacaggct gttgccaaac atatgattgc 180

tgtcagcact aatcttaagc ttgtgaagga gtttggaatt gacccaaaca atgcttttgc 240

cttttgggac tgggttggcg gccgttatag tggt 274

<210> 321

<211> 283

<212> DNA

<213> Zea mays

<220>

<221> unsure

<222> (1)..(283)

<223> unsure at all n locations

<400> 321

gccacaggct gttgccaaac atatgattgc tgtcagcact aatcttaagc ttgtgaagga 60

gtttggaatt ganccaaaca atgcttntgc ctnttgggac tgggttggcg gccgttatag 120



tgtttgcagt gctggtggcg ttctgccatt atctcttcag tatggcttgc caattgtcca 180  
gaaatttttg gagggagctt ccagcattga caaccactnc tactcatctt catgtgagaa 240  
naatataccn gtacntcttg gtgctgagtg tgtggaatgt ttc 283

<210> 322  
<211> 269  
<212> DNA  
<213> Zea mays

<400> 322

gccacaggct gttgccaaac atatgattgc tgtcagcact aatcttaagc ttgtgaagga 60  
gtttggaatt gacccaaaca atgcttttgc cttttgggac tgggttggcg gccgttatag 120  
tgtttgcagt gctggtggcg ttctgccatt atctcttcag tatggcttgc caattgtcca 180  
gaaatttttg gagggagctt ccagcattga caaccacttc tactcatctt catttgagaa 240  
aaatataccg tacttcttgg tttgctgag 269

<210> 323  
<211> 299  
<212> DNA  
<213> Zea mays

<400> 323

agaagtggat catgggttgg agcaactgga aaaccgttga caaatgttgt gtcagttgga 60  
ataggtggta gctttcttgg ccctctattt gtgcatactg cactccagac cgatccagaa 120  
gcagcagaat gtgcaaaagg ccggcaactg agattccttg caaatgttga tccagttgac 180  
gttgcacgaa gcattaaaga tttggatcca gaaaccactc tgggtggtgg tgtatcaaag 240  
acattcacia cagctgaaac aatgttaaata gctcgaactc ttaaggagtg gatcgtttc 299

<210> 324  
<211> 276  
<212> DNA  
<213> Zea mays

<400> 324

ttggaattga cccaaacaat gcttttgcct tttgggactg ggttggcggc cgttatagt 60  
tttgcagtgc tgttggcggt ctgccattat ctcttcagta tggctttcca attgtccaga 120

aattttttgga gggagcttcc agcattgaca accacttcta ctcatcttca tttgagaaaa 180  
atatacctgt acttcttgggt ttgctgagtg tgtggaatgt tcatttcttg gttatccagc 240  
tagggcaata tgccatatct caggcacttg agaagt 276

<210> 325  
<211> 255  
<212> DNA  
<213> Zea mays

<400> 325

ctccaagaga tgcagtcata aacagtgatg gggtgactgt ggtccctgag gtttggagtg 60  
ttaaagataa aatcaagcag ttttcagaga cttttagaag tggatcatgg gttggagcaa 120  
ctggaaaacc gttgacaaat gttgtgtcgg ttggaatagg tggtagcttt cttggccctc 180  
tatttgtgca tactgcactc cagaccgatc cagaagcagc agaatgtgca aaaggccggc 240  
aactgagatt ccttg 255

<210> 326  
<211> 233  
<212> DNA  
<213> Zea mays

<400> 326

gcacgaggtt ctgccattat ctcttcagta tggctttcca attgtccaga aatttttggga 60  
gggagcttcc agcattgaca accacttcta ctcatcttca tttgagagaa atatacctgt 120  
acttcttgggt ttgctgagtg tgtggaatgt ttcatttctt gggtatccag ctagggcaat 180  
attgtcatat tctcaggcac ttgagaagtt ggcaccacat atacagcagc tta 233

<210> 327  
<211> 151  
<212> DNA  
<213> Zea mays

<400> 327

aatttctttg cccaacctga tgctcttgct tatggaaaga ctctgaaca gttgcacagt 60  
gagaaagttc cagaaaatct tatccctcat aagactttta agggcaaccg gccatcacta 120  
agtttgcttc tgctacact atccgcatat g 151

<210> 328  
 <211> 115  
 <212> DNA  
 <213> Zea mays

<400> 328

gtggtagctt tcttggccct ctatttgtgc atactgcact ccagaccgat gcagaagcag 60

cagaatgtgc aaaaggccgg caactgagat tccttgcaaa tgttgatcca gttga 115

<210> 329  
 <211> 113  
 <212> DNA  
 <213> Zea mays

<220>  
 <221> unsure  
 <222> (1)..(113)  
 <223> unsure at all n locations

<400> 329

ggagtttggga attgacccaa acaatgcttt tgccttttgg gactggggtg gcggccgtta 60

tagtgtttgc agtgctgttg gcgntctgcc attatctctt cagtatggct ttc 113

<210> 330  
 <211> 122  
 <212> DNA  
 <213> Zea mays

<400> 330

tatcttatcc ctcataagac ttttaagggc aaccggccat cactaagttt gcttctgect 60

acactatctg catacgaggt tacgacagct tttatccatc tatgagcacc ggattgcagt 120

tc 122

<210> 331  
 <211> 443  
 <212> DNA  
 <213> Zea mays

<220>  
 <221> unsure  
 <222> (1)..(443)  
 <223> unsure at all n locations

<400> 331

agtcctatctc tggttactgtg caagaggtaa ctccctanagc tggttgagna ctgattgcac 60

tttatgaacg tgctgtgggg atttatgctt ctttggtaaa tatcaatgcc tatcatcagc 120

ctgggtgttga ggctgggaaa aaggcancan gagaagtatt ggcccttcag aaaagggttc 180

tgactgtatt aaaggaggcc atctgcnaga accctactga gccattgact ctagatgaaa 240

ttgcagatcg ctgacattgc cctgaagata ttganatgat ctacanaata atccancaca 300

tggcttctaa cgacagatca cttatagcag aaggcatctg cngctttctt ngcagtgtta 360

aggtgtacct nggtgaaatg caattttgga ccnaantatg caggccggga tagattctgn 420

gtcnggancn aagtaacatt ntt 443

<210> 332

<211> 420

<212> DNA

<213> Zea mays

<400> 332

ctcttgggaa agaatttgat ctggatggca accgggtaaa tcaagggcta tgtgtagatg 60

gaaacaaagg aagcactgac cagcacgctt acattcagca gctgagagaa ggtgtacaca 120

acttctttgt tacttttata gaggtcttgc gtgacaggcc tgctggcat gattgggagc 180

ttgaacctgg agtcacatgt ggtgactatt tgtttgggat gttgcaggga acacgttctg 240

ctctttatgc aaatgaccgt gaatctatct ctgttactgt gcaagaggta actcctagag 300

ctgttggagc actggttgca ctttatgaac gtgctgtggg gctttatgct tctttggtaa 360

atatcaatgc ctatcatcaa cctggtgttg aggctgggaa aaaggcagca ggagaagtgt 420

<210> 333

<211> 355

<212> DNA

<213> Zea mays

<400> 333

agttcttgcg gtcaagcaat caaccccgta tgatacaacc gtgctgccga aggtgtaatt 60

accagttgt ttttgacatg ccaattgctg agttctgact tggcaagggt gagcataagt 120

ctttcttcat ttgggagtta tcacagagcc agtttggcag tgctgtagtt ttggttttac 180

ctactcttttg tagaagaaaa gtgaagagtg gatattatgg aacaaaatat atacctacgg 240  
cagcacgcag catgatgaaa catatttaaa aaatttgggt gctctaccac atgcccgtgg 300  
aataaaacgg atgtaaactc agtgcaaaaa aaaaaaaaaa aaaaaaaaaac aaaaa 355

<210> 334  
<211> 376  
<212> DNA  
<213> Zea mays

<220>  
<221> unsure  
<222> (1)..(376)  
<223> unsure at all n locations

<400> 334

aacgagcggc gggacggcta gcccgcaata caaaatccgg aggaactccc aggaggcgaa 60  
aagcagatcc gtctcccccg agccccgacc ggcgatcgct atcgacttgt agcggaagcc 120  
atggcgtcgg cagcgctaata ctgcggcacg gagcagtgga aggcctcca ggcgcacgtc 180  
ggcgcgattc agaagacgca cctgcgcgac ctgatggccg acgccgaccg atgcaaggca 240  
atgacggctg agtatgaagg gatctttctg gattactcga gacagcaggc gactggtgaa 300  
accctggaga agctccttaa atgggctgac gctgcgaagc tcaaggagaa ngatgagaag 360  
atgtttaaag gtgaaa 376

<210> 335  
<211> 451  
<212> DNA  
<213> Zea mays

<400> 335

ccttatatag tgtttgcagt gctgttggcg ttctgccatt atctcttcag tatggctttc 60  
caattgtcca gaaatttttg gagggagctt ccagcattga caaccacttc tactcatctt 120  
catttgagaa aaatatacct gtacttcttg gtttgctgag tgtgtggaat gtttcatttc 180  
ttggttatcc agctagggca atattgccat attctcaggc acttgagaag ttggcaccac 240  
atatacagca gcttagcatg gagagtaacg ggaaggggtg ttccattgat ggcgccaac 300  
tttcctttga gacaggtgaa attgattttg gtgaacctgg aactaatggc cagcacagct 360

tctatcaatt aatccatcaa ggaaggggta tcccttgcca ctttattggt gttgttaaaa 420  
 gtcagcagcc tgtttacttg aaaaggaaa c 451

<210> 336  
 <211> 453  
 <212> DNA  
 <213> Zea mays

<400> 336

gtcatgcact ggagacgttg gcactacata tacagcagct tatcatggat agtaacgggg 60  
 ggggtgtttc cattgatggc gcccaacttt cctttgagac aggtgaaatt gatttttggtg 120  
 aacctggaac taatggccag cacagcttct atcaattaat ccatcaggga agggttatcc 180  
 cttgcgactt tattggtggt gttaaaagtc agcagcctgt ttacttgaaa ggggaaactg 240  
 tgagtaatca tgatgagctt atgtccaatt tctttgcccc acctgatgca cttgcttatg 300  
 gaaagactcc tgaacagttg cacagtgaga aagttccaga aaatcttatt cctcataaga 360  
 cttttaaggg caaccggcca tctaagtt tgcttctgcc tacactatcc gcatatgagg 420  
 ttggacagct tttatccatc tatgagcacc gga 453

<210> 337  
 <211> 419  
 <212> DNA  
 <213> Zea mays

<400> 337

aaaatcaagc agttttcaga gacttttaga agtggatcat gggttggagc aactggaaaa 60  
 ccgttgacaa atgttggtgc agttggaata ggtggtagct ttcttgccc tctatttggtg 120  
 catactgcac tccagaccga tccagaagca gcagaatgtg caaaaggccg gcaactgaga 180  
 ttccttgcaa atgttgatcc agttgacgtt gcacgaagca ttaaagattt ggatccagaa 240  
 accactctgg tgggtggttg atcaaagaca ttcacaacag ctgaaacaat gttaaagtgt 300  
 cgaactctta aggagtggat cgtttcttct cttgggccac aggctgttgc caaacatatg 360  
 attgctgtca gcactaatct taagcttggt aaggagtttg gaattgacct aaacaatgc 419

<210> 338  
 <211> 460  
 <212> DNA

<213> Zea mays  
 <400> 338

tcgatatgct gcaacggcag gaccaggact gggactcgcg ggccgacaca cgcctctaca 60  
 tttcttggtt atacagctag ggcaatattg ccatattctc aggcaattga gaagttggca 120  
 ccacatatac agcagcttag catggagagt aacgggaagg gtgtttccat tgatggcgcc 180  
 caactttcct ttgagacagg tgaaattgat tttggtgaac ctggaactaa tggccagcac 240  
 agcttctatc aattaatcca tcagggaagg gttatccctt gcgactttat tgggtgttgtt 300  
 aaaagtcagc agcctgttta cttgaaaggg gaaactgtga gtaatcatga tgagcttatg 360  
 tccaatttct ttgcccaacc tgatgctctt gcttatggaa agactcctga acagttgcac 420  
 agtgagaaaag ttccagaaaa tcttatccct cataagactt 460

<210> 339  
 <211> 323  
 <212> DNA  
 <213> Zea mays

<400> 339

gcgaagctca aggagaagat tgagaagatg tttaaaggtg aaaagataaa tagcacagag 60  
 aacaggtcag tgcttcatgt agctctgagg gtcceaagag atgcagtcac aaacagtgat 120  
 ggggtgaatg tggtccttga gggttcggagt gttaaagata aaatcaagca gttttcagag 180  
 acttttagaa gtggatcatg gggttgagca actggaaaac cgttgacaaa tgttgtgtcg 240  
 gttggaatag gtggtagctt tcttggccct ctatttgtgc atactgcact ccagaccgat 300  
 ccagaagcag cagaatgtgc aaa 323

<210> 340  
 <211> 422  
 <212> DNA  
 <213> Zea mays

<220>  
 <221> unsure  
 <222> (1)..(422)  
 <223> unsure at all n locations  
 <400> 340

cctaaactga gtctcattac aaatgtngat cnanttgacg ttgcacnaan cattaaagat 60

ttggntccag aaaccacccn ggtggtggtt gtancaaaga cattcacaac agcggaaaca 120  
 atgttaaagt ctcgaactct taaggagtgg atcgtttctt ctcttgggcc acaggctgtt 180  
 gccaaacata tgattgctgt cagcactaat cttaagcttg tgaaggagtt tggaattgac 240  
 ccaaacaatg cttttgcctt ttgggactgg gttggcggcc gttatagtgt ttgcagtgtc 300  
 gttggcggtc tgccattact cttcagtatg gctttccaat tgtccagaaa tttttggagg 360  
 gaacttccag ncattgacaa acaacttcna ntcnnctnc attttgagaa aaatatacct 420  
 gt 422

<210> 341  
 <211> 254  
 <212> DNA  
 <213> Zea mays

<400> 341

gccgcgcacc cctggcacga cctcgagatc ggtcctgaag ctccggccgt cttcaacgtc 60  
 gtcgtggaga tcaccaaggg gagcaaggtg aagtacgagc tggacaagaa gacggggctc 120  
 atcaaggtgg accggatcct ctactcgtcc gtcgtctacc ctcaacta cggcttcgtg 180  
 ccccggaacgc tctgcgagga caacgacccc atggacgtcc tcgtgctcat gcaggaaccc 240  
 gtccttcccg gcgc 254

<210> 342  
 <211> 205  
 <212> DNA  
 <213> Zea mays

<400> 342

tttgtttcct gctctggcca aattccagac aagaagaacg agaacaagga ggtggccgtc 60  
 aacgacttcc tgcccgccgc cgctgcccgc gaagcatcca gtactccatg taaagtcgcc 120  
 ctgctcattt atctcgtgga tgacttgaaa aaaaacgagg tttggattct gggactctgc 180  
 attcgtacgt gttgacatgg atctt 205

<210> 343  
 <211> 241  
 <212> DNA  
 <213> Zea mays



<400> 343

togacatgtg tgaatatgga gcggtgtctga cgatccttcc ggtgcgcgtc cgtccgtccg 60

ttacgtacgt ggtgccgacg agcaggtcgt ggagatcacc aaggggagca aggtgaagta 120

cgagctggac aagaagacgg ggctcatcaa ggtggaccgg atcctctact cgtccgtcgt 180

ctaccctcac aactacggct tcgtgccccg gacgctctgc gaggacaacg accccatgga 240

c 241

<210> 344

<211> 324

<212> DNA

<213> Zea mays

<400> 344

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cccttggeat gatctggaga taggtcctgg tgctccaacc atattcaact gcgtaaggcc 120

accctgtcat gcttgactgg tcctcttgtg atatgttcat gttaatagca tgatgtcttt 180

tgttctattg gaaaataaaa agtctccctg gactctaaaa tcaatgcctg tgaacacatg 240

aactgtttgt gtcacccatg ttctctgtgt ccttggcact ttctgatgca tgctcaaatg 300

cttaagaaag actcatagaa gcga 324

<210> 345

<211> 123

<212> DNA

<213> Zea mays

<400> 345

ctccgcgcca gggccatcgg cctcatgcct atgatagatc agggagagaa ggacgacaag 60

atcatcgccg tctgcgccga cgaccccgag taccgccact acaacgacat cagcgagctc 120

tcc 123

<210> 346

<211> 286

<212> DNA

<213> Zea mays

<400> 346

ggccgctccg ccaccccgca ctgcctgtc gcctcttctc gctttcgcca ccggggcagc 60  
gctccggtga gtggcgaagg gccctcccg gctcccgctt ccctctgcca tggctggacc 120  
tgctgttctc aatgagcgta tcctttcttc catgtcccag aaacatgttg ctgctcaacc 180  
atagcatgat ttggagatag gaccaggggc tcctgaattc ttcaattgtg tggttgagat 240  
tcctagaggc agcaagggtta agtacgagtt ggacaaggca tctggt 286

<210> 347  
<211> 289  
<212> DNA  
<213> Zea mays

<220>  
<221> unsure  
<222> (1)..(289)  
<223> unsure at all n locations

<400> 347

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ccactacaac gacatcagcg agctctcccc tcaccgcctc caggagatcc gccgcttctt 120  
tgaagactgt acgcgcgctt gctctctctc tctctctctg ggggcgcgct ttctggngnc 180  
tctctctctc tctctatctc tcggcgctcg ctgtgtgcgc gcgcggtgct ctgtgagcgc 240  
gcgcgccccct ctgtatgagt gcgtgtgtgg gtgttggtgc tcgcgctct 289

<210> 348  
<211> 96  
<212> DNA  
<213> Zea mays

<400> 348

ggaggtccgt agctgctcat ccgtggcatg atcttgagat cggtcctgat gctcctgctg 60  
tttccgaatg ttgttggttca gatcaciaag ggaagc 96

<210> 349  
<211> 199  
<212> DNA  
<213> Zea mays

<400> 349

tagcgagtaa tcggatcgtc aggagtcctg agtgtcatcc gggatgatct tgagatcggt 60  
 ctgatgctct gctgttatca atgttggtgt tgagatcaca aagggaagca acataaaata 120  
 tgagctcgac aagaaaactg gactgattaa ggttgatcga gtcctgcact catcagttgt 180  
 ataccacac aattatggt 199

<210> 350  
 <211> 284  
 <212> DNA  
 <213> Zea mays

<400> 350

agcgacacgg ttggagaccc attcaaagaa gtacattgag actggtgccc ttggtggcaa 60  
 aggcagttag tcccataagg ctgcggttac aggcgacacg gttggagacc cattcaaaga 120  
 cactgcagga ccatcgctgc acgttcttat caagatgctc gccacgatca cactggtcat 180  
 ggctcccata ttcttgatgat taaccaacca gatttatcaa gcttgccatt aaccctgcgg 240  
 agatgtatct atgcgacttg tagatgaggt gtttacctgc atgt 284

<210> 351  
 <211> 132  
 <212> DNA  
 <213> Zea mays

<400> 351

gcactgagaa ctcgatcgct ggctagaaca caggctcttc attcacttcc atgcgctccg 60  
 tggccatcgc cgtccccgac cgcagcgcag gactgaggat aatgaagaa gttaagggtg 120  
 ctgcttctgc tg 132

<210> 352  
 <211> 333  
 <212> DNA  
 <213> Zea mays

<400> 352

gccaccgatc gtcctctcc actttccaca ttccagttcc actccgctc cgctgccggt 60  
 cgccgactcc gaaactccga cagtccgacc acaaggctct gtgcgggatc cacagaagga 120  
 tgagtgaaga ggataagact gctgcttctg ctgagcagcc gaagagggcc cctaagctca 180

atgaaaggat cctctcttct ctgtccagga ggtccgtagc tgctcatcca tggcatgac 240  
 ttgagatcgg tcttgatgct cctgctgttt tcaatgttgt tgttgagatc acaaaggga 300  
 gcaaagttaa atatgagctt gacaagaaaa ctg 333

<210> 353  
 <211> 340  
 <212> DNA  
 <213> Zea mays

<400> 353

ctccgctgcc ggtcgccgac tccgaaactc cgacagtccg accacaagga tccacagaag 60  
 gatgagtga gaggataagg ctgctgcttc tgctgagcag ccgaagaggg cccctaagct 120  
 caatgaaagg atcctctctt ctctgtccag gaggtccgta gctgctcatc cgtggcatga 180  
 tcttgagatc ggtcctgatg ctctgctgt tttcaatgtt gttgttgaga tcacaaagg 240  
 aagcaaagtt aaatatgagc tcgacaagaa aactggactg attaagggtg atcgagtcct 300  
 gtactcatca gttgtatacc ctcacaatta tggttcgtcc 340

<210> 354  
 <211> 322  
 <212> DNA  
 <213> Zea mays

<400> 354

gccaccgatc gtcctctctc actttccaca ttccagttcc actccgcctc cgtgcccgt 60  
 cgccgactcc gaaactccga cagtcggacc acaagaagga tgagtgaaga ggataagact 120  
 gctgcttctg ctgagcagcc gaagagggcc cctaagctca atgaaaggat cctctcttct 180  
 ctgtccagga ggtccgtagc tgctcatcca tggcatgac ttgagatcgg tcttgatgct 240  
 cctgctgttt tcaatgttgt tgttgagatc acaaaggga gcaaagttaa atatgagctt 300  
 gacaagaaaa ctggactgat ta 322

<210> 355  
 <211> 357  
 <212> DNA  
 <213> Zea mays

<220>  
 <221> unsure

<222> (1)..(357)  
 <223> unsure at all n locations  
 <400> 355  
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 tcgccgactc cgaaactccg acagtccgac cacaaggtct tgtgcgggat ccacagaagg 120  
 atgagtgaag aggataagac tgctgcttct gctgagcagc cgaagagggc ccctaagctc 180  
 aatgaaagga tcctctcttc tctgtccagg aggtccgtag ctgctcatcc atggcatgat 240  
 cttgagatcg gtccatgatgc tcctgctggt ttcaatgttg ttgttgagat cacaaagggg 300  
 agcaaagtta aatatgagct tgacaagaaa actggactga ttaagggtga tcgagtc 357

<210> 356  
 <211> 309  
 <212> DNA  
 <213> Zea mays

<400> 356  
 accaggggtga aaaggatgac aagataatag cagtctgtgc tgatgatcct gaatatcgtc 60  
 actacaacga catcagttag ctgtctcttc atcgccctgca agagatcaag cggttctttg 120  
 aagattataa gaagaatgag aataaagagg ttgctgtcga tgcattcttg cctgcgacca 180  
 cagctcgaga ggccattcag tactccatgg atctgtatgc gcagtatatt ttgcaaagct 240  
 tgaggcagta gattggaagc aactatttat ctgggcgtct tggaatgagt gtgattttaa 300  
 taagtcaaa 309

<210> 357  
 <211> 312  
 <212> DNA  
 <213> Zea mays

<400> 357  
 caaagttaaa tatgagcttg acaagaaaac tggactgatt aaggttgatc gagtcctgta 60  
 ctcatcagtt gtataccctc acaattatgg ttctgttcca aggactcttt gtgaagacaa 120  
 tgacccaatg gatgtgtag tcctgatgca ggagcctggt gttcctgggt cgttcctgcg 180  
 agcaagagca atcggcctta tgctcatgat tgaccagggg gaaaaggatg acaagataat 240  
 agcagtctgt gctgatgatc ctgaatatcg tcactacaac gacatcagtg agctgtctcc 300

tcatcgctg ca

312

<210> 358

<211> 298

<212> DNA

<213> Zea mays

<400> 358

tgcacagtcc gaccacaagg tcttgtgctg gatccacaga aggatgagtg aagaggataa 60

gactgctgct tctgctgagc agccgaagag ggcccctaag ctcaatgaaa ggatcctctc 120

ttctctgtcc aggaggtccg tagctgctca tccatggcat gatcttgaga tcggtcctga 180

tgctcctgct gttttcaatg ttgttggtga gatcaciaag ggaagcaaag ttaaataatga 240

gcttgacaag aaaactggac tgattaaggt tgatcgagtc ctgtactcat cagttgta 298

<210> 359

<211> 297

<212> DNA

<213> Zea mays

<400> 359

gcctccgctg ccggtcgccg actccgaaac tccgacagtc cgaccacaag gatccacaga 60

aggatgagtg aagaggataa ggctgctgct tctgctgagc agccgaagag ggcccctaag 120

ctcaatgaaa ggatcctctc ttctctgtcc aggaggtccg tagctgctca tccgtggcat 180

gatcttgaga tcggtcctga tgctcctgct gttttcaatg ttgttggtga gatcaciaag 240

ggaagcaaag ttaaataatga gctcgacaag aaaactggac tgattaaggt tgatcga 297

<210> 360

<211> 287

<212> DNA

<213> Zea mays

<400> 360

ctccactttc cacattccag ttccactccg cctccgctgc cggtcgccga ctccgaaact 60

ccgacagtcc gaccacaagg tcttgtgctg gatccacaga aggatgagtg aagaggataa 120

gactgctgct tctgctgagc agccgaagag ggcccctaag ctcaatgaaa ggatcctctc 180

ttctctgtcc aggaggtccg tagctgctca tccatggcat gatcttgaga tcggtcctga 240

tgctcctgct gttttcaatg ttgttggtga gatcacaaag ggaagca 287

<210> 361  
 <211> 282  
 <212> DNA  
 <213> Zea mays

<400> 361

gagcactttc cacattccag ttccactccg cctccgctgc cggtcgccgt ctccgagact 60  
 ccgacagtcc gaccgcaagg tcttggtgcg gatccacaga aggatgagtg aagaggataa 120  
 gactgctgct tctgctgagc agccgaagag ggcccctaag ctcaatgaaa ggatcctctc 180  
 ttctctgtcc aggaggtccg tagctgctca tccatggcat gatcttgaga tcggtcctga 240  
 tgctcctgct gttttcaatg ttgttggtga gatcacaaag gg 282

<210> 362  
 <211> 297  
 <212> DNA  
 <213> Zea mays

<400> 362

ttaagggtga tcgagtcctt tactcatcag ttgtataccc tcacaattat ggtttcattc 60  
 caaggactac ttgtgaagac aatgacccaa tggatgtgtt ggtcctgatg caggagcctg 120  
 ttgttctctg ttcgttctctg agagctagag caattggcct tatgcccatg attgaccagg 180  
 gtgaaaagga tgacaagata atagcagtat gtgctgacga tcctgaatac cgtcactaca 240  
 acgacatcag cgagctgtct cctcaccgcc tgcaagagat caagcgcttc tttgaag 297

<210> 363  
 <211> 279  
 <212> DNA  
 <213> Zea mays

<400> 363

ctcgagccgc tccactttcc acattccagt tccactccgc ctccgctgcc ggtcgccgac 60  
 tccgaaactc cgacagtccg accacaaggt cttgtgcggg atccacagaa ggatgagtga 120  
 agaggataag actgctgctt ctgctgagca gccgaagagg gccccctaagc tcaatgaaag 180  
 gatcctctct tctctgtcca ggaggtccgt agctgctcat ccatggcatg atcttgagat 240

cggtcctgat gtcctgctg ttttcaatgt tgttgttga 279

<210> 364  
<211> 272  
<212> DNA  
<213> Zea mays

<400> 364

gcggttcttt gaagattata agaagaatga gaataaagag gttgctgtcg atgcattctt 60  
gcctgcgacc acagctcgag aggccattca gtactccatg gatctgtatg cgcagtatat 120  
tttgcaaagc ttgaggcagt agattggaag caactattta tctgggcgtc ttggaatgag 180  
tgtgatttta ataagtcaaa acacttgata ttgtgtgcaa atcttggggg tgagaacaat 240  
gtcactagct gtgatttact tctgtgactt gc 272

<210> 365  
<211> 292  
<212> DNA  
<213> Zea mays

<400> 365

ccacattcca gttccactcc gcctccgctg ccggctcgccg actccgaaac tccgacagtc 60  
cgaccacaag gatccacaga aggatgagtg aagaggataa ggctgctgct tctgctgagc 120  
agccgaagag ggcccctaag ctcaatgaaa ggatcctctc ttctctgtcc aggaggtccg 180  
tagctgctca tccgtggcat gatcttgaga tcggctcctga tgctcctgct gttttcaatg 240  
ttgttgttga gatcacaaag ggaggcaaag ttaaatatga gctcgacaag aa 292

<210> 366  
<211> 266  
<212> DNA  
<213> Zea mays

<400> 366

ccactttcca cattccagtt ccactccgcc tccgctgccg gtcgccgact ccgaaactcc 60  
gacagtccga ccacaaggat ccacagaagg atgagtgaag aggataaggc tgctgcttct 120  
gctgagcagc cgaagagggc ccctaagctc aatgaaagga tcctctcttc tctgtccagg 180  
aggctccgtag ctgctcatcc gtggcatgat cttgagatcg gtctgatgc tcctgctggt 240



ttcaatgttg ttgttgagat cacaaa 266

<210> 367  
 <211> 284  
 <212> DNA  
 <213> Zea mays

<400> 367

ccacattcca gttccactcc gcctccgctg ccggtcgccg actccgaaac tccgacagtc 60  
 cgaccacaag gatccacaga aggatgagtg aagaggataa ggctgctgct tctgctgagc 120  
 agccgaagag ggcccctaag ctcaatgaaa ggatcctctc ttctctgtcc aggaggtccg 180  
 tagctgctca tccgtggcat gatcttgaga tcggtcctga tgctcctgct gttttcaatg 240  
 ttgtttgttg gatcacaaag ggaagcaaag ttaaatatga gctc 284

<210> 368  
 <211> 341  
 <212> DNA  
 <213> Zea mays

<400> 368

ccaggttgct cctcatttcc actttccact gcgcctccgc tgcccatcgc cgtccccgac 60  
 cgcagcgcag gactgaggat gagtgaagag gataaggctg ctgcttctgc tgagcagcct 120  
 aagagggccc ctaagctcaa tgaaaggatc ctctcctctc tgtccaggag gtccgtagct 180  
 gctcatccat ggcatgatct cgagatcggc cctggtgctc ctgctgtatt caatgttggt 240  
 gttgagatca caaaggggaag caaagtcata tacgagcttg acaagaaaac tggactgatt 300  
 aaggttgatc gagtccttta ctcatcagtt gtatacctca c 341

<210> 369  
 <211> 269  
 <212> DNA  
 <213> Zea mays

<400> 369

attccactcc gcctccgtgc cggtcgccga ctccgaaact ccgacagtcc gaccacaagg 60  
 tcttgtgcgg gatccacaga aggatgagtg aagaggataa gactgctgct tctgctgagc 120  
 agccgaagag ggcccctaag ctcaatgaaa ggatcctctc ttctctgtcc aggaggtccg 180

tagctgctca tccatggcat gatcttgaga tcggtcctga tgctcctgct gttttcaatg 240  
 ttgttggtga gacgccaaag ggaagcaaa 269

<210> 370  
 <211> 255  
 <212> DNA  
 <213> Zea mays

<400> 370

cctcacaatt atggtttcgt tccaaggact ctttgtgaag acaatgaccc aatggatgtg 60  
 ttagtcctga tgcaggagcc tgttgttcct ggttcggtcc tgcgagcaag agcaatcggc 120  
 cttatgcccc tgattgacca gggtgaaaag gatgacaaga taatagcagt ctgtgctgat 180  
 gatcctgaat atcgtcacta caacgacatc agtgagctgt ctctcatcg cctgcaagag 240  
 atcaagcggg tcttt 255

<210> 371  
 <211> 285  
 <212> DNA  
 <213> Zea mays

<400> 371

ctctctcca ctttccacat tccagttcca ctccgcctcc gctgccgggc gccgactccg 60  
 aaactccgac agtccgacca caagaaggat gagtgaagag gataagactg ctgcttctgc 120  
 tgagcagccg aagagggccc ctaagctcaa tgaaaggatc ctctcttctc tgtccaggag 180  
 gtccgtagct gctcatccat ggcattgatc tgagatcggt cctgatgctc ctgctgtttt 240  
 caatgttggt gttgagatca caaaggaag cagagttaaa tatga 285

<210> 372  
 <211> 267  
 <212> DNA  
 <213> Zea mays

<400> 372

agactccgaa actccgacag tccgaccaca agaaggatga gtgaagagga taagactgct 60  
 gcttctgctg agcagccgaa gagggcccct aagctcaatg aaaggatcct ctcttctctg 120  
 tccaggaggt ccgtagctgc tcatccatgg catgatcttg agatcgggcc tgatgctcct 180

gctgttttca atgttggtgt tgagatcaca aagggaagca atgttaaata tgatcttgac 240  
aagaatactg gactgatgaa ggttgat 267

<210> 373  
<211> 266  
<212> DNA  
<213> Zea mays

<400> 373

ggaggtccgt agctgctcat ccgtggcatg atcttgagat cggtcctgat gctcctgctg 60  
ttttcaatgt tggtgttgag atcacaaagg gaagcaaagt taaatatgag ctcgacaaga 120  
aaactggact gattaagggt gatcgagtcc tgtactcatc agttgtatac cctcacaatt 180  
atgtgttcgt tccgaggact ctttgtgaag acaatgaccc aatggatgtg ttagtcctga 240  
tgcaggagcc tggtgttcct ggttcg 266

<210> 374  
<211> 253  
<212> DNA  
<213> Zea mays

<400> 374

gctgatgatc ctgaatatcg tcaactacaac gacatcagtg agctgtctcc tcatcgctg 60  
caagagatca agcggttctt tgaagattat aagaagaatg agaataaaga gggtgctgtc 120  
gatgcattct tgctgctgac cacagctcga gagggcattc agtactccat ggatctgtat 180  
gcgaggtata ttttgcaaag cttgaggcag tagattggaa gcaactatct atctgggcgt 240  
cttggaatga gtg 253

<210> 375  
<211> 303  
<212> DNA  
<213> Zea mays

<400> 375

gctgccgatc gccgtccccg accgcagtgc aggactgagg atgagtgaag aggataaggc 60  
tgctgcttct gctgagcagc ctaagagggc ccctaagctc aatgaaagga tcctctctc 120  
tctgtccagg aggtccgtag ctgctcatcc atggcatgat ctcgagatcg gtccctggtgc 180

tcttgctgta ttcaatgttg ttgttgagat cacaaaggga agcaaagtca aatacgagct 240  
 tgacaagaaa actggactga ttaagggtga tcgagtcctt tactcatcag ttgtataccc 300  
 tca 303

<210> 376  
 <211> 285  
 <212> DNA  
 <213> Zea mays

<400> 376

cgaccaccga tcgctcctga gcactttcca cattccagtt ccacaccgcc tccgctgacg 60  
 gtcgccgtct ccgagactcc gacagtccga ccgcaagaag gatgagtga gaggataaga 120  
 ctgctgcttc tgctgagcag ccgaagaggg cccctaagct caatgaaagg atcctctctt 180  
 ctctgtccag gaggtccgta gctgctcatc catggcatga tcttgagatc ggtcctgatg 240  
 ctctgctgtg tttcaatgtt gttgttgaga tcacaaaggg aagca 285

<210> 377  
 <211> 303  
 <212> DNA  
 <213> Zea mays

<220>  
 <221> unsure  
 <222> (1)..(303)  
 <223> unsure at all n locations

<400> 377

aagnaccacc gatcgctcct ctccactttc cacattccag ttccactccg cctccgctgc 60  
 cggtcgccga ctccgaaact ccgacagtcc gaccacaagg tcttgtgcgg gatccacaga 120  
 aggatgagtg aagaggataa gactgctgct tctgctgagc agccgaagag ggcccctaag 180  
 ctcaatgaaa ggatcctctc ttctctgtcc aggaggtccg tagctgctca tccatggcat 240  
 gatcttgaga tcggtcctga tgctcctgct gttttcaatg ttgttggtga gatcacaag 300  
 gga 303

<210> 378  
 <211> 303  
 <212> DNA

<213> Zea mays

<400> 378

acgcctccgc tgccgatcgc cgtccccgac cgcagtgcag gactgaggat gagtgaagag 60  
gataaggctg ctgcttctgc tgagcagcct aagagggccc ctaagctcaa tgaaaggatc 120  
ctctcctctc tgtccaggag gtccgtagct gctcatccat ggcatgatct cgagatcggt 180  
cctgggtgctc ctgctgtatt caatgttggt gttgagatca caaaggggaag caaagtcaaa 240  
tacgagcttg acaagaaaac tggactgatt aaggttgatc gagtccttta ctcatcagtt 300  
gta 303

<210> 379

<211> 267

<212> DNA

<213> Zea mays

<400> 379

attccaagga ctctttgtga agacaatgac ccaatggatg tgttggctct gatgcaggag 60  
cctgttggtc ctggttcggt cctgagagct agagcaattg gccttatgcc catgattgac 120  
caggggtgaaa aggatgacaa gataatagca gtatgtgctg acgatcctga ataccgtcac 180  
tacaacgaca tcagcgagct gtctcctcac cgcttgcaag agatcaagcg cttctttgaa 240  
gattacaaga aaaacgagaa caaagaa 267

<210> 380

<211> 263

<212> DNA

<213> Zea mays

<400> 380

cctgggtgctc ctgctgtatt caatgttggt gttgagatca caaaggggaag caaagtcaaa 60  
tacgagcttg acaagaaaac tggactgatt aaggttgatc gagtccttta ctcatcagtt 120  
gtataccctc acaattatgg tttcattcca aggactcttt gtgaagacaa tgaccaatg 180  
gatgtgttgg tcctgatgca ggagcctggt gttcctgggt cgttcctgag agctagagca 240  
attggcctta tgcccatgat tga 263

<210> 381

<211> 273  
 <212> DNA  
 <213> Zea mays  
 <400> 381  
 agcctccgct gccggtcgcc gactccgaaa ctccgacagt ccgaccacaa gcaggatgag 60  
 tgaagaggat aagactgctg cttctgctga gcagccgaag agggccccta agctcaatga 120  
 acggatcctc tcttctctgt ccaggaggtc cgtagctgct catccatggc atgatcttga 180  
 gatcggtcct gatgctcctg ctgttttcaa tgttggtgtt gagatcacia aggaagcaa 240  
 agttaaatat gagcttgaca agaaaactgg act 273

<210> 382  
 <211> 276  
 <212> DNA  
 <213> Zea mays  
 <400> 382  
 gtagctgctc atccatggca tgatcttgag atcggtcctg atgctcctgc tgttttcaat 60  
 gttgttggtg agatcaacag cgaagcaaag ttaaatatga gcttgacaag aaaactggac 120  
 tgattaaggt tgatcgagtc ctgtactcat cagttgtata cctcacaat tatggtttcg 180  
 ttccaaggac tctttgtgaa gacaatgacc caatggatgt gttagtcttg atgcaggagc 240  
 ctgttggtcc tggttcggtc ctggagcaag agcatc 276

<210> 383  
 <211> 283  
 <212> DNA  
 <213> Zea mays  
 <400> 383  
 ccactttcca ctgcacctcc gctgcccac gccgtccccg accgcagcgc aggactgagg 60  
 atgagtgaag aggataaggc tgctgcttct gctgagcagc ctaagagggc ccctaagctc 120  
 aatgaaagga tcctctctc tctgtccagg aggtccgtag ctgctcatcc atggcatgat 180  
 ctcgagatcg gtccctgggtgc tcctgctgta ttcaatgttg ttgttgagat caciaaggga 240  
 agcaaagtca aatacgagct tgacaagaaa actggactga tta 283

<210> 384

<211> 251  
 <212> DNA  
 <213> Zea mays  
  
 <400> 384  
  
 ctccgcctcc gctgccggtc gccgactccg aaactccgac agtccgacca caaggtcttg 60  
 tgcgggatcc acagaaggat gagtgaagag gataagactg ctgcttctgc tgagcagccg 120  
 aagagggccc ctaagctcaa tgaaaggatc ctctcttctc tgtccaggag gtccgtagct 180  
 gctcatccat ggcatgatct tgagatcggt cctgatgctc ctgctgtttt caatgttgtt 240  
 gttgagatca c 251

<210> 385  
 <211> 263  
 <212> DNA  
 <213> Zea mays  
  
 <400> 385  
  
 ctttccactc cgctccgct gccgatcgcc gtccccgacc gcagtgcagg actgaggatg 60  
 agtgaagagg ataaggctgc tgcttctgct gagcagccta agagggcccc taagctcaat 120  
 gaaaggatcc tctcctctct gtccaggagg tccgtagctg ctcatccatg gcatgatctc 180  
 gagatcggtc ctggtgctcc tgctgtattc aatgttggtt ttgagatcac aaaggggaagc 240  
 aaagtcaa at acgagcttga caa 263

<210> 386  
 <211> 296  
 <212> DNA  
 <213> Zea mays  
  
 <220>  
 <221> unsure  
 <222> (1)..(296)  
 <223> unsure at all n locations  
  
 <400> 386  
  
 gccgatcgcc gtccccgacc gcagtgcagg actgaggatg agtgaagagg ataaggctgc 60  
 tgcttctgct gagcagccta agagggcccc taagctcaat gaaaggatcc tctcctctct 120  
 gtccaggagg tccgtagctg ctcatccatg gcatgatctc gagatcggtc ctggtgctcc 180  
 tgctgtattc aatgttggtt ttgagatcac aaaggggaagc aaagtcanat acgagcttga 240

caagaagact ggactgatta aggttgatcg agtcctttac tcatcagttg tatacc 296

<210> 387  
 <211> 221  
 <212> DNA  
 <213> Zea mays

<400> 387

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 attggaagca actatattatc tgggcgtctt ggaatgagtg tgattctaata aagtcaaaac 120  
 acttgatatt gtgtgcaaata cttgggggttg agaacaatgt cactagctgt gatttacttc 180  
 tgtgacttgc attttttttc ttgttaaatt atgaataagc g 221

<210> 388  
 <211> 313  
 <212> DNA  
 <213> Zea mays

<400> 388

ctcatttcca ctttccactg cgctccgct gcccatcgcc gtccccgacc gcagcgcagg 60  
 tgaggatcca accccaacaa acttccaggc gacggactga ggatgagtga agaggataag 120  
 gctgctgctt ctgctgagca gcctaagagg gccctaagc tcaatgaaag gatcctctcc 180  
 tctctgtcca ggaggtccgt agctgctcat ccatggcatg atctcgagat cggctcctggt 240  
 gctcctgctg tattcaatgt tgttggtgag atcacaaagg gaagcaaagt caaatacgag 300  
 cttgacaaga aaa 313

<210> 389  
 <211> 336  
 <212> DNA  
 <213> Zea mays

<400> 389

ctactttcca ctccgctcc gctgccgatc gccgtccccg accgcagtgc aggtgaggat 60  
 ccaaccccaa caaacttcca ggcgacggac tgaggatgag tgaagaggat aaggctgctg 120  
 cttctgctga gcagcctaag agggccccta agctcaatga aaggatcctc tcctctctgt 180  
 ccaggaggtc cgtagctgct catccatggc atgatctcga gatcggctct ggtgctcctg 240



ctgtattcaa tgttggtggt gagatcacia agggaagcaa agtcaaatac gagcttgaca 300  
agataactgg actgattaag gttgatcgag tccttt 336

<210> 390  
<211> 247  
<212> DNA  
<213> Zea mays

<400> 390

ggatgacaag ataatagcag tatgtgctga cgatcctgaa taccgtcact acaacgacat 60  
cagcgagctg tctcctcacc gcctgcaaga gatcaagcgc ttctttgaag attacaagaa 120  
aaacgagaac aaagaagtcg cagttgatgc attcttgccc gcgacaacag ctcaagaagc 180  
cattcagtag tccatggacc tgtatgccca gtatatatttg caaagcttga ggcagtagat 240  
tgcaagc 247

<210> 391  
<211> 221  
<212> DNA  
<213> Zea mays

<400> 391

caatgttggt gttgagatca caaagggaag caaagtcaaa tacgagcttg acaagaaaac 60  
tggactgatt aagggtgatc gagtccttta ctcatcagtt gtataccctc acaattatgg 120  
tttcattcca aggactcttt gtgaagacaa tgaccaaatg gatgtgttgg tcttgatgca 180  
ggagcctggt gttcctgggt cggtcctgag agctagagca a 221

<210> 392  
<211> 263  
<212> DNA  
<213> Zea mays

<400> 392

gtagtgcga tattcaggat catcagcaca gactgctaga gatcaagcgg ttctttgaag 60  
attataagaa gaatgagaat aaagaggttg ctgtcgatgc attcttgcct gcgaccacag 120  
ctcgagaggc cattcagtag tccatggatc tgtatgcgca gtatatatttg caaagcttga 180  
ggcagtagat tggaagcaac tatttatctg ggcgtcttgg aatgagtgtg attttaataa 240

gtcaaaacac tgatattgtg tgc 263

<210> 393  
 <211> 258  
 <212> DNA  
 <213> Zea mays

<400> 393

agcggagaac gacccacacg tgacgacatg cttgctctgc tggactgtta ctctgagtaa 60  
 gactgctgct tctgctgagc agccgaagag ggcccctaag ctcaatgaaa ggatcctctc 120  
 ttctctgtcc aggaggtccg tagctgctca tccatggcat gatcttgaga tcggctctga 180  
 tgctcctgct gttttcaatg ttgttggtga gatcacaaag ggaagcaaag ttaaatatga 240  
 gcttgacaag aaaactgg 258

<210> 394  
 <211> 209  
 <212> DNA  
 <213> Zea mays

<400> 394

caagaaaact ggactgatta aggttgatcg agtcctgtac tcatcagttg tataccctca 60  
 caattatggc ttcgttccaa ggaatctttg tgaagacaat gacccaatgg atgtgttagt 120  
 cctgatgcag gagcctgttg ttcttggttc gttcctgcga gcaagagcaa tcggccttat 180  
 gcccatgatt gaccaggtg aaaaggatg 209

<210> 395  
 <211> 274  
 <212> DNA  
 <213> Zea mays

<400> 395

ctcatttcca ctttccactc cgctccgct gccgatcgcc gtccccgacc gcagtgcagg 60  
 actgaggatg agtgaagagg ataaggctgc tgcttctgct gaggagccta agagggcccc 120  
 taagctcaat gaaaggatcc tctcctctct gtccaggagg tccgtagctg ctcacccatg 180  
 gcatgatctc gagatcggtc ctggtgctcc tgctgtattc aatgttggtg ttgagatcac 240  
 aaggggaagc caagtcaata cgagcttgac aaga 274

<210> 396  
 <211> 240  
 <212> DNA  
 <213> Zea mays  
  
 <400> 396  
  
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 tgcccatgat tgaccagggt gaaaaggatg acaagataat agcagtatgt gctgatgac 120  
 ctgaataccg tcactacaac gacatcagcg agctgtctcc tcaccgcctg caagagatca 180  
 agcgcttctt tgaagattac aagaaaaacg agaacaaaga agtcgcagtt gatgcattct 240  
  
 <210> 397  
 <211> 313  
 <212> DNA  
 <213> Zea mays  
  
 <400> 397  
  
 tccgcctccg ctgccgatcg ccgtccccga ccgcagtgca ggactgagga tgagtgaaga 60  
 ggataaggct gctgcttctg ctgagcagcc taagagggca cctaagctca atgaaaggat 120  
 cctctcctct ctgtccagga ggtccgtagc tgctcatcca tggcatgac tcgagatcgg 180  
 tcctgggtgct cctgctgtat tcaatgttgt tgttgagatc acaaagggaa gcaaagtcaa 240  
 atacgagctt gacaagataa ctggactgat taaggttgat cgagtccttt actcatcagt 300  
 tgtataccct cac 313  
  
 <210> 398  
 <211> 187  
 <212> DNA  
 <213> Zea mays  
  
 <400> 398  
  
 caaggtcttg tgtgggatcc acagaaggat gagtgaagag gataagactg ctgcttctgc 60  
 tgagcagccg aagagggccc ctaagctcaa tgaaaggatc ctctcttctc tgtccaggag 120  
 gtccgtagct gctcatccat ggcgatgctt tgagatcggc cctgatgctc ctgctgtttt 180  
 caatggt 187

<210> 399  
 <211> 243  
 <212> DNA  
 <213> Zea mays  
  
 <400> 399  
  
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 gctgcttctg ctgagcagcc taagagggcc cctaagctca atgaaaggat cctctcctct 120  
 ctgtccagga ggtccgtagc tgctcatcca tggcatgac tcgagatcgg tcctgggtgct 180  
 cctgctgtat tcaatgttgt tgttgagatc acaaaaggaa agcaagtcaa atacgagctt 240  
 gac 243

<210> 400  
 <211> 261  
 <212> DNA  
 <213> Zea mays  
  
 <400> 400  
  
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 aaagagggttg ctgtcgatgc attcttgccct gcgaccacag ctcgagaggc cattcagtac 120  
 tccatggatc tgtatgcgca gtatattttg caaagcttga ggcagtagat tggaagcaac 180  
 tatttatctg ggcggcttgg aatgagtgtg atcctaataa gccaaaacac ttgatattgt 240  
 gtgcaaattct tggggttgag a 261

<210> 401  
 <211> 285  
 <212> DNA  
 <213> Zea mays  
  
 <400> 401  
  
 gcgcctccgc tgcccatcgc cgtccccgac cgcagcgcag gtgaggatcc aacccaaca 60  
 aacttccagg cgacggactg aggatgagtg aagaggataa ggctgctgct tctgctgagc 120  
 agcctaagag ggcccctaag ctcaatgaaa ggatcctctc ctctctgtcc aggaggtccg 180  
 tagctgctca tccatggcat gatctcgaga tcggctcctg tgctcctgct gtattcaatg 240  
 ttgttggtga gatcaciaag ggaagccaag tcaaatacga gcttt 285

<210> 402  
 <211> 222  
 <212> DNA  
 <213> Zea mays

<400> 402

cccacgagtc cgccacgcg tccgaaagag gttgctgacg atgcattctt gcctgcgacc 60  
 acagctcgag aggccattca gtactccatg gatctgtatg cgcagtatat ttgcaaagc 120  
 ttgaggcagt agattggaag caactattta tctgggcgtc ttggaatgag tgtgatttta 180  
 ataagtcaaa acacttgata ttgtgagcaa ttcggggggt tg 222

<210> 403  
 <211> 287  
 <212> DNA  
 <213> Zea mays

<400> 403

attggaagca actatattatc tgggcgtctt ggaatgagtg tgattttaat aagtcaaaac 60  
 acttgatatt gtgtgcaaatt cttgggggttg agaacaatgt cactagctgt gatttacttc 120  
 tgtgacttgc attttttttc ttgttaaatt atgaataagc gaagtccata cgtctactgt 180  
 gtggcttctt gctgggttca tctctaccc atgttcctca agcttgggaa catggggcct 240  
 ttccccattt ccgtgtcttc catgcgaagt aaaatttatt tgtatac 287

<210> 404  
 <211> 176  
 <212> DNA  
 <213> Zea mays

<400> 404

gggaagcaaa gtcaaatacg agcttgacaa gaaaactgga ctgattaagg ttgatcgagt 60  
 cctttactca tcagttgtat accctcacia ttatgggttc attccaagga ctctttgtga 120  
 agacaatgac ccaatggatg tgttggtcct gatgcaggag cctgttggtc ctggtt 176

<210> 405  
 <211> 151  
 <212> DNA  
 <213> Zea mays

<400> 405

tccagttcca ctccgcctcc gctgccggtc gccgactccg aaactccgac agtccgacca 60  
 caaggtcttg tgcgggatcc acagaaggat gagtgaagag gataagactg ctgcttctgc 120  
 tgagcagccg aagagggccc ctaagctcaa t 151

<210> 406  
 <211> 263  
 <212> DNA  
 <213> Zea mays

<400> 406

gaacaaagaa gtcgcagttg atgcattctt gcccgcgaca acagctcaag aagccattca 60  
 gtactccatg gacctgtatg cccagtatat ttgcaaagc ttgaggcagt agattgcaag 120  
 caacaattta tctatcatgc gtcttggatc ggggcgtgat ttaataagc cgaatcgctt 180  
 gctatattgc gaaccttggg attgagaaca gcgtcactag ctgtgattcg ctcctttctc 240  
 gttaaattat catatgaata ggc 263

<210> 407  
 <211> 237  
 <212> DNA  
 <213> Zea mays

<400> 407

gcacgagaga agtcgcagtt gatgcattct tggccgcgac aacagctcaa gaagccattc 60  
 agtactccat ggacctgtat gcccagtata ttttgcaaag cttgaggcag tagattgcaa 120  
 gcaacaattt atctatcatg cgtcttggat gggggcgtga ttttaataag ccaaatcgct 180  
 tgctatattg ggaaccttgg aattgagaac agcgtcacta gctgtgattc gctcctt 237

<210> 408  
 <211> 166  
 <212> DNA  
 <213> Zea mays

<400> 408

cggacgctgg gcgagtcctt tactcatcag ttgtataccc tcacaattat ggtttcattc 60  
 caaggacaat ttgtgaagac aatgacccaa tggatgtgtt ggtcctgatg caggagcctg 120  
 ttgttcttgg ttcgttcttg agagctagag caattggcct tatgcc 166

<210> 409  
 <211> 237  
 <212> DNA  
 <213> Zea mays

<400> 409

cagacgcgtg gccgctgccc atcgccgtcc ccgaccgcag cgcaggtagag gatccaaccc 60  
 caacaaaatt ccaggcgacg gactgaggat gagtgaagag gataaggctg ctgcttctgc 120  
 tgagcagcct aagagggccc ctaagctcaa tgaaaggatc ctctcctctc tgtccaggag 180  
 gtccgtagct gtcattccat ggcatgatct cgagatcggg cctgggtgctc ctgctgt 237

<210> 410  
 <211> 137  
 <212> DNA  
 <213> Zea mays

<400> 410

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 gttgttggtg agatcacaaa gggaagcaaa gttaaataatg agcttgacaa gaaaactgga 120  
 ctgattaagg ttaaccg 137

<210> 411  
 <211> 191  
 <212> DNA  
 <213> Zea mays

<400> 411

acactgcacc tccgctgccc atcgccgtcc ccgaccgcag cgcaggacta gtatgaggat 60  
 aaggctgctg cttctgctga gcagcctaag agggccccta agctcaatga aaggatcctc 120  
 tcctctctgt ccaggaggtc cgtagctgct catccatggc atgatctcga gatcgggcct 180  
 ggtgctcctg c 191

<210> 412  
 <211> 136  
 <212> DNA  
 <213> Zea mays

<400> 412

gtgttggtcc tgatgcagga gcctgttggt cctggttcgt tctgagagc tagagcaatt 60  
ggccttatgc ccatgattga ccagggtgaa aaggatgaca agataatagc agtatgtgct 120  
gacgacccctg aatacc 136

<210> 413  
<211> 160  
<212> DNA  
<213> Zea mays

<400> 413

acggcccacc tggaagccgg agagaatcga gcagagccac cgatcgctcc tctccacttt 60  
ccacattcca gttccactcc gcctccgctg ccggtcgccg actccgaaac tccgacagtc 120  
cgaccacaag gatccacaga aggatgagtg aagaggataa 160

<210> 414  
<211> 155  
<212> DNA  
<213> Zea mays

<400> 414

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cgatactccg acagtccgac cacaaggtct tgtgcgggat ccacagaagg atgagtgaag 120  
aggataagac tgctgcttct gctgagcagc cgaag 155

<210> 415  
<211> 135  
<212> DNA  
<213> Zea mays

<400> 415

ccaggttgct cctcatttcc actttccact gcgggtccgc tgcccategc cgtccccgac 60  
cgcagcgcag gactgaggat gagtgaagag gataaggctg ctgcttctgc tgagcagcct 120  
aagagggccc ctaag 135

<210> 416  
<211> 186  
<212> DNA  
<213> Zea mays



<400> 416

agagaatcga gcagagccac ccggctgctc ctcatctcca cttccactc cgctccgct 60  
gccgatcgcc gtccccgacc gcagtgcagg actgaggatg agtgaagagg ataaggctgc 120  
agctttctgct gagcagccta agagggcccc taagctcaat gaaaggatcc tctcctctct 180  
gtccag 186

<210> 417

<211> 303

<212> DNA

<213> Zea mays

<400> 417

aaccgctccg ccacctcgcc actcgctctc tctcgctctc gccaccgggc caggggaagg 60  
accatccgat cggatccgct atggctggag ctgctgctct caatgagggt atcctttctt 120  
ccgtgtccga gaaaaatggt gctgctcacc catggcatga tttggagata ggaccagagg 180  
ctcctgcagt gttcaattgt gtggttgaga ttcctagagg cagcaagggt aagtatgagt 240  
tggacaagat atctggtctg atcaagggtg atcgtgtcct ttactcctct gttgtttacc 300  
cac 303

<210> 418

<211> 290

<212> DNA

<213> Zea mays

<400> 418

ctcaggcccg ctccgccacc tcgccactcg cctcttctcg ctctcgccac cgggccagg 60  
aagggaccat ccgatcggct ccgtcatggc tggagctgct gctctcaatg agggatcct 120  
ttcttccgtg tccgagaaaa atgttgctgc tcacctatgg catgatttgg agataggacc 180  
agaggctcct gaagtgttca attgtgtggt tgagattcct agaggcagca aggttaagta 240  
tgagttggac aagatatctg gtctgatcaa ggtggatcgt gtcctttact 290

<210> 419

<211> 309

<212> DNA

<213> Zea mays

<400> 419

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tcgccaccgg gccaggggaag ggaccatccg atcggctccg tcatggctgg agctgctgct 120  
ctcaatgagg gtatcctttc ttccgtgtcc gagaaaaatg ttgctgctca cccatggcat 180  
gatttgagga taggaccaga ggctcctgaa gtgttcaatt gtgtggttga gattcctaga 240  
ggcagcaagg ttaagtatga gttggacaag atatctggtc tgatcaaggt ggatcgtgtc 300  
ctttactcc 309

<210> 420

<211> 258

<212> DNA

<213> Zea mays

<400> 420

ctcgaggccg ctccgccacc tcgccactcg cctcttctcg ctctcgccac cgggccaggg 60  
aagggaccat ccgatcggct ccgtcatggc tggagctgct gctctcaatg agggatcct 120  
ttcttccgtg tccgagaaaa atgttgctgc tcacccatgg catgatttgg agataggacc 180  
agaggctcct gaagtgttca attgtgtggt tgagattcct agaggcagca aggttaagta 240  
tgagttggac aagatatc 258

<210> 421

<211> 293

<212> DNA

<213> Zea mays

<400> 421

tgcagcagtg aactcgaggc cgctccgcca cctcgccact cgctctttct cgctctcgcc 60  
accgggccag gtgaagggaac catccgatcg gctccgtcat ggctggagct gctgctctca 120  
atgagggtat cctttcttcc gtgtccgaga aaaatgttgc tgctcacca tggcatgatt 180  
tggagatagg accagaggct cctgaagtgt tcaattgtgt ggttgagatt cctagaggca 240  
gcaagggttaa gtatgagttg gacaagatat ctggtctgat caaggtggat cgt 293

<210> 422

<211> 315

<212> DNA  
 <213> Zea mays  
 <400> 422  
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 gctctcgcca ccgggccagg ggcgggacca tccgatcggc tccgtcatgg ctggagctgc 120  
 tgctctcaat gagggatatcc tttcttccgt gtcgagaaaa aatgttgctg ctaccccatg 180  
 gcatgatttg gagataggac cagaggctcc tgaagtgttc aattgtgtgg ttgagattcc 240  
 tagaggcagc aagggttaagt atgagttgga caagatatct ggtctgatac aggtggatcg 300  
 tgtcctttac tctc 315

<210> 423  
 <211> 254  
 <212> DNA  
 <213> Zea mays  
 <400> 423  
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 aagggaccat ccgatcggct ccgtcatggc tggagctgct gctctcaatg agggatatcc 120  
 ttcttccgtg tccgagaaaa atgttgctgc tcacccatgg catgatttgg agataggacc 180  
 agaggctcct gaagtgttca attgtgtggt tgagattcct agaggcagca aggttaagta 240  
 tgagttggac aaga 254

<210> 424  
 <211> 266  
 <212> DNA  
 <213> Zea mays  
 <400> 424  
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 cctcttctcg ctctcgccac cgggccaggg aagggaccat ccgatcggct ccgtcatggc 120  
 tggagctgct gctctcaatg agggatatcc ttcttccgtg tccgagaaaa atgttgctgc 180  
 tcacccatgg catgatttgg agataggacc agaggctcct gaagtgttca attgtgtggt 240  
 tgagattcct agaggcagca aggtta 266

<210> 425  
 <211> 260  
 <212> DNA  
 <213> Zea mays  
  
 <400> 425  
  
 ggagccctgg acagcagcag tgaactcgag gccgctccgc cacctcgcca ctgcctctt 60  
 ctgctctcg ccaccgggccc agggaaacgga ccatccgata ggctccgtca tggctggagc 120  
 tgctgctctc aatgagggta tcctttcttc cgtgtccgag aaaaatgttg ctgctcaccc 180  
 atgcattgat ttggagatag gaccagaggc tcctgaagtg ttcaattgtg tggttgagat 240  
 tcctagaggc agcaaggcta 260

<210> 426  
 <211> 278  
 <212> DNA  
 <213> Zea mays  
  
 <400> 426  
  
 gttgccatta tatcagcata ttggctgggg cagacctctg gcttggtgga cgagtctggc 60  
 aacccaactg gtggtctttt tgggacagct gtagcaacaa tggggatgct tagcactgca 120  
 gggatatgtt tcacatgga catgtttggt cctatagctg acaacgctgg tggattgtt 180  
 gagatgagcc agcagcctga aagtgtgagg gaaatcacag atgttctaga tgctgtgggc 240  
 aacacaacta aagctactac gaaaggattt gccatagg 278

<210> 427  
 <211> 277  
 <212> DNA  
 <213> Zea mays  
  
 <400> 427  
  
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 tcttgagct aaagtgttag cctccatgct gatgtttgcg acggtcgctg ggattctcat 120  
 ggcactcttg cttgaacact gctggcggcg cctgggataa tgcaaagaag tacattgaga 180  
 ctggcgctct tgggtggcaag ggcagcgagt cccacaaggc tgcggttact ggcgacacgg 240  
 ttggagaccc attcaaagac actgctggac cgctcgct 277

<210> 428  
 <211> 265  
 <212> DNA  
 <213> Zea mays  
  
 <400> 428  
  
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 gacaaggcat ctggtctgat caagggtggac cgtgttcttt attcctctgt tgtttaccca 120  
 cataactatg gcttcattcc acgcacactc tgtgaggata acgaccccct ggatgtcctc 180  
 atactgatgc aggaacaagt tgtccctggg tgtttcctgc gagctcgtgc tattgggctc 240  
 atgcctatga tcgatcaggg cgaga 265

<210> 429  
 <211> 302  
 <212> DNA  
 <213> Zea mays  
  
 <400> 429  
  
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 gccaccccg c actcgctgt cgctcttct cgctttcgcc accggggcag cgctccgcca 120  
 tggctggacc tgctgttctc aatgagcgta tcctttcttc catgtcccag aaacatgttg 180  
 ctgctcacc atggcatgat ttggagatag gaccaggggc tctgaattc ttcaattgtg 240  
 tggttgagat tcctagaggc agcaaggta agtaacgagt ggacaaggca tctggtctga 300  
 tc 302

<210> 430  
 <211> 287  
 <212> DNA  
 <213> Zea mays  
  
 <400> 430  
  
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 gcagcgctcc gccatggctg gacctgctgt tctcaatgag cgtatccttt cttccatgtc 120  
 tcagaaacat gttgctgctc acccatggca tgatttgag ataggaccag gggctcctga 180  
 attcttcaat tgtgtggttg agattcctag aggcagcaag gttaagtacg agttggacaa 240  
 ggcattctgt ctgatccagg tcgacgtgtt ctttattcct ctggtgg 287

<210> 431  
 <211> 266  
 <212> DNA  
 <213> Zea mays  
  
 <400> 431  
  
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 cgagctcgag gccgctccgc caccgccac tcgcctgtcg cctcttctcg ctttcgccac 120  
 cggggcagcg ctccgccatg gctggacctg ctgttctcaa tgagcgtatc ctttcttcca 180  
 tgtcccagaa acatgttgct gctcacccat ggcattgatt ggagatagga ccaggggctc 240  
 ctgaattctt caattgtgtg gttgag 266

<210> 432  
 <211> 239  
 <212> DNA  
 <213> Zea mays  
  
 <400> 432  
  
 cccacgcgtc cgatcacact gatccggcct ggagcgcctg acagcagcag cagcagcagc 60  
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 accggggcag cgctccgcca tggctggacc tgctgttctc aatgagcgta tcctttcttc 180  
 catgtcccag aaacatgttg ctgctaccc atggcatgat ttggagatag gaccagggg 239

<210> 433  
 <211> 211  
 <212> DNA  
 <213> Zea mays  
  
 <400> 433  
  
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 cccgcaactcg cctgtcgctt cttctcgctt tcgccaccgg ggcagcgctc cgccatggct 120  
 ggacctgctg ttctcaatga gcgtatcctt tcttccatgt ccagaaaaca tgttgctgct 180  
 caccatggc atgatttgga gataggacca g 211

<210> 434  
 <211> 260

<212> DNA  
 <213> Zea mays  
  
 <400> 434  
  
 gacagcagca gcagcagcag catcgagctc gaggccgctc cgccacccccg cactcgectg 60  
 tcgcctcttc tagctttcgc caccggggca gcgctccgcc atggctggac ctgctgttct 120  
 caatgagcgt atcctttctt ccatgtccca gaaacatgtt gctgctcacc catggcatga 180  
 tttggagata ggtggttgag attcctagag gcagcaaggt taagtacgag ttggacaagg 240  
 catctggtct gatcaaggtg 260

<210> 435  
 <211> 376  
 <212> DNA  
 <213> Zea mays  
  
 <220>  
 <221> unsure  
 <222> (1)..(376)  
 <223> unsure at all n locations  
  
 <400> 435  
  
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 gaacaaggag gtggccgtca acgacttctt gcccgcgcgc gctgcccgcg aaccatccag 120  
 tactccatgg acctgtacgg ccagtacatc atgcagaccc tgccggcggtta gagcgtgtcc 180  
 taccagatcc catgcgagct gagctgacgc aagagcacag atcgacagaa tccttggtgt 240  
 ctggtctcat gcatggatag ccaggtcaca tggttggtcg acgaccatgc atctcttctt 300  
 cccagcgatt ttagcctgta tcttccctta tttatagtct tttggggttg gtggaatctg 360  
 tccacagtgt ggtttg 376

<210> 436  
 <211> 268  
 <212> DNA  
 <213> Zea mays  
  
 <400> 436  
  
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 gctcatgcct atgatcgatc agggtgagaa agatgataag atcatagctg tctgtgctga 120

tgaccctgaa ttccgtcact acaaggacat ctccggacctc cccccgcacg gccttcaaga 180  
gatccgccgc ttttttgaag attataaaaa gaatgaaaac aaagaagttg cagtgaatga 240  
tttcctccca gccgaagatg ccatcaaa 268

<210> 437  
<211> 248  
<212> DNA  
<213> Zea mays

<400> 437

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cacggacctc ccaccgcacg gccttcaaga gatccgccgc ttttttgaag attataaaaa 120  
gaacgaaaac aaggaggtcg cagtgaatga gttcctgccg gcgaaagatg ccatcaacgc 180  
aatcaagtac tcgatggacc tgtatggctc atacgtcacg gaaagcctga ggaagtgatc 240  
tccagctg 248

<210> 438  
<211> 274  
<212> DNA  
<213> Zea mays

<400> 438

gagataccaa ggggcagcaa ggttaaatat gaacttgaca agaaaactgg actgatcaag 60  
gtggaccgtg tgctgtattc atcagttgtt taccctcaca actatggatt cattcctcgc 120  
acgctttgtg aagacagtga tcctttggat gtactgggta taatgcagga gcctgttacc 180  
ccaggctggt tcctacgtgc gaaggccacg ggccttatgc cgatgattga tcagggagag 240  
gcagatgaca agatcattgc agtgtgcgct gatg 274

<210> 439  
<211> 292  
<212> DNA  
<213> Zea mays

<400> 439

caagggttaa tatgaacttg acaagaaaac tggactgatc aaggtggacc gtgtgctgta 60  
ttcatcagtt gtttaccctc acaactatgg attcattcct cgcacgcttt gtgaagacag 120



tgatcctttg gatgtactgg ttataatgca ggagcctgtt atcccaggct gtttcctacg 180  
 tgcgaaggcc atcggcctta tgccgatgat tgatcaggga gaggcagatg acaagatcat 240  
 tgcagtgtgc gctgatgatc ccgagtacag gcattacaat gatatcaagg ag 292

<210> 440  
 <211> 321  
 <212> DNA  
 <213> Zea mays

<400> 440

ggcgccccgt gtagaagccg tgaaggagac aggcaccttc cagaagggtc ctgccttgaa 60  
 cgaaaggata ctgtcatcca tgtccaggag gtctgttgct gcacaccctt ggcatgatct 120  
 ggagataggt cctgggtgctc caaccatatt caactgcgtc attgagatac caaggggcag 180  
 ctaggttaaa tatgaacttg acaagaaaac tggactgatc aaggtggacc gtgtgctgta 240  
 ttcatcagtt gtttaccctc acaactatgg attcattcct cgcacgcttt gtgaagacag 300  
 tgatcctttg gatgtactgg t 321

<210> 441  
 <211> 276  
 <212> DNA  
 <213> Zea mays

<400> 441

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 ttgagatacc aaggggcagc aaggttaa atgaacttga caagaaaact ggactgatca 120  
 aggtggaccg tgtgctgtat tcatcagttg tttaccctca caactatgga ttcattcctc 180  
 gcacgctttg tgaagacagt gatcctttgg atgtactggg tataatgcag gagcctgtta 240  
 tcccaggctg tttcctacgt gcgaaggcca tcggcc 276

<210> 442  
 <211> 272  
 <212> DNA  
 <213> Zea mays

<400> 442

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gattcattcc tcgcacgctt tgtgaagaca gtgacccctt ggatgtactg gttataatgc 120  
 aggagcctgt tatcccaggc tggttcctac gtgcgaaggc catcggcctt atgccgatga 180  
 ttgatcaggg agaggcagat gacaagatca ttgcagtgtg cgctgatgat cccgagtaca 240  
 ggcattacaa tgatatcaag gagctccac ct 272

<210> 443  
 <211> 270  
 <212> DNA  
 <213> Zea mays

<220>  
 <221> unsure  
 <222> (1)..(270)  
 <223> unsure at all n locations

<400> 443

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 atcggcctta tgccgatgat tgatcagggg gaggcagatg acaagatcat tgcagtgtgc 120  
 gctgatgatc ccgagtacag gcattacaat gatatcaagg agctcccacc tcaccgcttg 180  
 gctgaaatca ggcgcttctt cgaggactac aagaagaatg agaacaagga ggttgctgtg 240  
 aatgactttc taccagcgag cgccgcttat 270

<210> 444  
 <211> 245  
 <212> DNA  
 <213> Zea mays

<400> 444

gcacgagatt cattcctcgc acgctttgtg aagacagtga tcctttggat gtactgggta 60  
 taatgcagga gcctgttatc ccaggctgtt tcctacgtgc gaaggccatc ggccttatgc 120  
 cgatgattga tcaggagag gcagatgaca agatcattgc agtgtgcgct gatgatcccg 180  
 agtacaggca ttacaatgat atcaaggagc tcccacctca ccgcttggtt gaaatcaggc 240  
 gcttc 245

<210> 445  
 <211> 306  
 <212> DNA  
 <213> Zea mays

<400> 445

ccgtgtgctg tattcatcag ttgtttaccc tcacaactat ggattcattc ctgcgacgct 60  
ttgtgaagac agtgatcctt tggatgtact ggttataatg caggagcctg ttatcccagg 120  
ctgtttccta cgtgcgaagg ccatcggcct tatgccgatg attgatcagg gagaggcaga 180  
tgacaagatc attgcagtgt gcgctgatga tcccgagtac aggcattaca atgatatcaa 240  
ggagctccca cctcaccgct tggctgaaat caggcgcttc ttcgaggact acaagaagaa 300  
tgagaa 306

<210> 446

<211> 310

<212> DNA

<213> Zea mays

<220>

<221> unsure

<222> (1)..(310)

<223> unsure at all n locations

<400> 446

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gatgacaaga tcattgcagt gtgcgctgat gatcccgagt acaggcatta caatgatatc 120  
aaggagctcc cacctcaccg cttggctgaa atcaggcgct tcttcgagga ctacaagaag 180  
aatgagaaca aggaggttgc tgtgaatgac tttctaccag cgagcgccgc ttatgaagcc 240  
atacagcact ctatggacct gtatgctaca tacatcgttg naggcatgag gaggtaagat 300  
tctgatggct 310

<210> 447

<211> 273

<212> DNA

<213> Zea mays

<400> 447

gttccaacca tattcaactg cgtcattgag ataccaaggg gcagcaaggt tagctatgaa 60  
cttgacaaga aaactggact gatcaagggtg gaccgtgtgc tgtattcatc agttgtttac 120  
cctcacaact atggattcat tctcgcacg ctttgtgaag acagtgatcc tttggatgta 180

ctggttataa tgcaggagcc tgtcatccca ggctgtttcc tacgtgcgaa ggccatcggc 240  
 tttatgccga tgattgatca gggagaggca gat 273

<210> 448  
 <211> 310  
 <212> DNA  
 <213> Zea mays

<220>  
 <221> unsure  
 <222> (1)..(310)  
 <223> unsure at all n locations

<400> 448

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 atgcttaaga aagactcata gaagcgactc ctattcctat gccaggatcat tgagatacca 120  
 aggggacagca aggttaaata tgnacttgac aagaaaactg gactgctcaa ggtggaccgt 180  
 gtgctgtatt catcagttgt ttaccctcac aactatggat tcattcctcg cacgctttgt 240  
 gaagacagtg atcctttgga tgtactgggt ataatgcagg agcctgttat cccaggctgt 300  
 ttcctacgtg 310

<210> 449  
 <211> 192  
 <212> DNA  
 <213> Zea mays

<400> 449

gcatgatctg gagataggtc ctggtgctcc aaccatattc aactgcgtca ttgagatacc 60  
 aaggggacagc aaggttaaata atgaacttga caagaaaact ggactgatca aggtggaccg 120  
 tgtgctgtat tcacagttg tttaccctca caactatgga ttcattcctc gcacgctttg 180  
 tgaagacagt ga 192

<210> 450  
 <211> 225  
 <212> DNA  
 <213> Zea mays

<400> 450

gggtgatggt cccgagtgcg ggcgttgccg tggatatcag ggcctcccgc ctcgccgctt 60

ggctgagatc aggcgcttct tcgaggactg cgagaagaat gagagcgagg cggctgctgt 120  
 gaatgacttt ctgccggcga gcgccgcttg tgaagccgtg cggcgctctg tgggcctgtg 180  
 tgctgcgtgc gtcgttgagg gcctgaggag gtaggattct gatgg 225

<210> 451  
 <211> 244  
 <212> DNA  
 <213> Zea mays

<400> 451

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 ccttccagaa ggttcttgcc ttgaacgaaa ggatactgtc agccatgtcc aggaggtctg 120  
 ttgctgcaca cccttgcat gatctggaga taggtcctgg tgctccaacc atattcaact 180  
 gcgtcattga gataccaagg ggctactagg ttaaatatga acttgacaag aaaactggac 240  
 tgat 244

<210> 452  
 <211> 311  
 <212> DNA  
 <213> Zea mays

<400> 452

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 ggccgcgcgc gccgctgacc caggttgctc tgatggcgcc cgctgtagaa gccgtgaagg 120  
 agacaggcac cttccagaag gttcctgcct tgaacgaaag gatactgtca tccatgtcca 180  
 ggaggtctgt tgctgcacac ccttgcatg atctggagat aggtcctggg gctccaacca 240  
 tattcaactg cgtcattgag ataccaaggg gcagcaaggc taaatatgaa cttgacaaga 300  
 aaactggact g 311

<210> 453  
 <211> 301  
 <212> DNA  
 <213> Zea mays

<400> 453

agctccgtcg tcgcgtgcca tcctaggggt tctttccccg tcggcgccct cccagatttg 60

gcccgcgcgc ccgctgaccc aggttgtctt gatggcgccc gctgtagaag cctgaagga 120  
gacaggcacc ttccagaagg ttctgcctt gaacgaaagg atactgtcat ccatgtccag 180  
gaggtctgtt gctgcacacc cttggcatga tctggagata ggtcctggtg ctccaaccat 240  
attcaactgc gtcattgaga taccaagggg cagcaagggt aaatatgaac ttgacaagaa 300  
a 301

<210> 454  
<211> 290  
<212> DNA  
<213> Zea mays  
<400> 454

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atgactttct accagcgagc gccgcttatg aagccataca gcactctatg gacctgtatg 120  
ctacatacat cgttgagggc ctgaggaggt aggattctga tggctaggaa aggtggggag 180  
gatgttgacg aaaaactggg agaccattta ccgcatggaa cgagtaccgt tattatttta 240  
tttgtgtcgt gtatactgct agtagtgaac cctcaatcaa agaccgaaat 290

<210> 455  
<211> 249  
<212> DNA  
<213> Zea mays  
<400> 455

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cgtgaaggag acaggcacct tccagaaggt tctgccttg aacgatagga tactgtcatc 120  
catgtccagg aggtctgttg ctgcacaccc ttggcatgat ctggagatag gtctggtgc 180  
tccaaccata ttcaactgcg tcattgagat accaggggca gcaaggttag atatgaactt 240  
gacaagaaa 249

<210> 456  
<211> 312  
<212> DNA  
<213> Zea mays  
<400> 456

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 ccccgctcggc gcctccccag atttgccgcg cgcgcgcgct gacgcagggt gtcctatatg 120  
 gcgcccgcgtg tagaagccgt gaaggagaca ggcaccttcc agaaggttcc tgccttgaac 180  
 gaaaggatac tgtcatccat gtccaggagg tctgttgctg cacacccttg gcatggtctg 240  
 gagatagggtc ctggtgctcc aaccatattc aactgcgtca ttgagatacc aaggggcagc 300  
 aaggttaaat at 312

<210> 457  
 <211> 359  
 <212> DNA  
 <213> Zea mays

<220>  
 <221> unsure  
 <222> (1)..(359)  
 <223> unsure at all n locations  
 <400> 457

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 tgtcacccat gttcctctgc tccttggcac tttctgatgg atgctcaa at gcttaagaaa 120  
 gactcataga agcgactcct attcctatgc cagggtcattg agataccaag gggcagcaag 180  
 gttaaatatg gacttgcaag aaaactggac tgatcaagggt ggaccgtgtg ctgtattcat 240  
 cagttgttta cctcacaac tatggattca ttctcgcac gctttgtgaa gacagtgatc 300  
 ctttggtatgt actggttata atgcangagc ctgttatccc aggctgtttc ctacgtgcg 359

<210> 458  
 <211> 293  
 <212> DNA  
 <213> Zea mays  
 <400> 458

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 ggcgcctccc cagatttggc cgccgccgcc gctgacccag gttgtcttga tggcgcccgg 120  
 ctgtagaagc cgtgaaggag acaggcacct tccagaagggt tcctgccttg aacgaaagga 180  
 tactgtcatc catgtccagg aggtctgttg ctgcacaccc ttggcatgat ctggagatag 240

gtcctggtgc tccaaccata ttcaactgcg tcattgagat accaaggggc agc 293

<210> 459  
 <211> 290  
 <212> DNA  
 <213> Zea mays

<400> 459

actagttcta gatcccggct cgcgcgcgc gtgccatcct agggtttctt tccccgcgcg 60  
 cgcctcccca gatttgccgc cgcgcgcgc tgaccaggt tgtcttgatg gcgcccgcgc 120  
 tagaagccgt gaaggagaca ggcaccttc agaaggttc tgccttgaa gaaaggatac 180  
 tgtcatccat gtccaggagg tctgttgctg cacacccttg gcatgatctg gagataggtc 240  
 ctggtgctcc aaccatattc aactgcgtca ttgagatacc aaggggcagc 290

<210> 460  
 <211> 277  
 <212> DNA  
 <213> Zea mays

<400> 460

cggctcgagg gctccgctgc cgcgtgccat cctagggttt ctttccccgt cggcgcctcc 60  
 ccagatttgg ccgcgcgcgc cgctgacca ggttgcttg atggcgccgc ctgtagaagc 120  
 cgtgaaggag acaggcacct tccagaagg tctgccttg aacgaaagga tactgtcatc 180  
 catgtccagg aggtctgttg ctgcacacc ttggcatgat ctggagatag gtcctggtgc 240  
 tccaaccata ttcaactgcg taaggccacc ctgtcat 277

<210> 461  
 <211> 265  
 <212> DNA  
 <213> Zea mays

<400> 461

cggacgctgg gcggctccgt cgtcgcgtgc catcctaggg tttctttccc cgtcggcgcc 60  
 tccccagatt acgccgcgc gcgcgtgac ccaggttgtc ttgatggcg ccgctgtaga 120  
 agccgtgaag gagacaggca ccttcagaa ggttcctgcc ttgaacgaaa ggatactgtc 180  
 atccatgtcc aggaggtctg ttgctgcaca cccttggcat gatctggaga taggtcctgg 240



tgctccaacc atattcaact gcgtc 265

<210> 462  
 <211> 183  
 <212> DNA  
 <213> Zea mays

<400> 462

gctgaaatca ggcgcttcta cgaggactac aagaagaatg agaacaagga ggttgctgtg 60  
 aatgactttc taccagcgag cgccgctatg aagccatata gcactctatg gacctgtatg 120  
 ctacatacat cgttgagggc ctgaggaggt aggattctga tggctaggaa aggtggggag 180  
 gat 183

<210> 463  
 <211> 291  
 <212> DNA  
 <213> Zea mays

<220>  
 <221> unsure  
 <222> (1)..(291)  
 <223> unsure at all n locations

<400> 463

caatgattga tgaggagag cttgactgga aaattgtggc catttctttg gatgaccga 60  
 aagcatctct tgtgaacgac gtggatgatg ttgagaagca tttccggggg aactgactg 120  
 ccatcagaga ctggttcaga gactacaaga tacctgatgg aaagcctgcc aacaaatttg 180  
 gtctcgga caagcccgca agcaaggaat acgccctgaa ggtcattcaa gagaccaacg 240  
 aatcatggga gaaattggta nagagaaata ttcccgtgg agagctctcg t 291

<210> 464  
 <211> 281  
 <212> DNA  
 <213> Zea mays

<400> 464

ccgaaagcat ctcttgtgaa cgacgtggat gatgttgaga agcattttcc ggggacactg 60  
 actgccatca gagactggtt cagagactac aagatactg atggaaagcc tgccaacaaa 120  
 ttggtctcg gcaacaagcc cgcaagcaag gaatacgccc tgaaggtcat tcaagagacc 180

aacgaatcat gggagaaatt ggtaaagaga aatattcccg ctggagagct ctcgttggcc 240  
 tgattttggc ccatggaagc caccacattc ttttgaactg c 281

<210> 465  
 <211> 269  
 <212> DNA  
 <213> Zea mays

<400> 465

tgttgagaag cattttccgg ggacactgac tgccatcaga gactggttca gagactacaa 60  
 gatacctgat ggaaagcctg ccaacaaatt tgggtctcggc aacaagcccg caagcaagga 120  
 atacgccctg aaggtcattc aagagaccaa cgaatcatgg gagaaattgg taaagagaaa 180  
 tattcccgct ggagagctct cgttggcctg attttggcc atggaagcca ccacattctt 240  
 ttgaactgct ttcgtgagca tgcgtttt 269

<210> 466  
 <211> 257  
 <212> DNA  
 <213> Zea mays

<400> 466

gacccaactt ctgcaaattc tgaggttgaa ggagcgtttg gggataatga tcctgttgat 60  
 gttgttgaga tcggtgaaag acgtgccaat gtcggggatg ttcttaaggt taagccattg 120  
 gcagcttttag caatgattga tgaggggagca gcttgactgg aaaattgtgg ccatttcttt 180  
 ggatgacccg aaagcatctc ttgtgaacga cgtagatgat gttcaacagc ttttccgggg 240  
 acactactgc catcaga 257

<210> 467  
 <211> 325  
 <212> DNA  
 <213> Zea mays

<400> 467

gtttgccgat cgagcccggg cgacgtgaga tacgagcggc gtcgaccggc gccggcgagc 60  
 ctccgcagcc gcagccgccc gatctgggtt ttctttcgta gcggtagcgc aagatgagcc 120  
 aggaccagga gaacggaggc accaacgggc agcacgccgc cgacgtcatg gaggtggagc 180

cgaagcgccg ggcgccgcgg ctgaacgagc gcatacctgtc gtcgctgtcg cggagggtccg 240  
 tcgccgcgca cccctggcac gacctcgaga tcggctcctga agctccggcc gtcttcaacg 300  
 tcgtcgtgga gatcaccaag gggag 325

<210> 468  
 <211> 227  
 <212> DNA  
 <213> Zea mays

<220>  
 <221> unsure  
 <222> (1)..(227)  
 <223> unsure at all n locations

<400> 468

cgtagtntag cggaagatga gccaggacca ggagaacgga ggcaccaacg ggcagcacgc 60  
 cgccgacgtg atggagggtg agccgaagcg ccgggcgccg cggctgaacg agcgcatcct 120  
 gtcgtcgtcg tcgctggaggc ccgtcgccgc gcacccctgg cagcacctcg agatcggtcc 180  
 tgaagctccg gccgtcttca acgtcgtcgt ggagatcacc aagggga 227

<210> 469  
 <211> 462  
 <212> DNA  
 <213> Zea mays

<220>  
 <221> unsure  
 <222> (1)..(462)  
 <223> unsure at all n locations

<400> 469

agttgtgtat gtcacggtct gatgcgcgcc actctcacat gcctnccgct gtcaggcagc 60  
 gccaccggct ctgtttcgtc atgggttatga caaaagtgga tgcagttctc cgttgccgat 120  
 tctcggaatc gggtttctga ttgatgcctg aaatttcacg atgattagcg tttatgggtg 180  
 atttcaacga tgaggggggt cccaagggt atgctttccc tctcacgatg cctactgtta 240  
 ctctgattga gtgaagattt gcaaccttca ctcacaggtc agctgctgca catccgtggc 300  
 atttcgtgta gattgttcca taagcgccta ctgttttcaa ctgtgtagtt gtcattatca 360  
 agagtagtac gggttaagtat gagctacaca cagacagtag acttaattgg gctgatcacg 420

ttctctattc aaccattatt tacccccaaa gctacggttt ca 462

<210> 470  
 <211> 408  
 <212> DNA  
 <213> Zea mays

<400> 470

gggtggcgta cttcacgtcg cgggtgcggtc tacaattaga gtcgagcacg cgtccgatca 60  
 tagtccgtgt acgcgtccaa tgacgtctct tgcacagcgc accataactc agcatttact 120  
 gaacatggac tgcagctccc ctcggaggcg tcctcgctgg catgagcggg agaggagcta 180  
 ctggtactac atctaatagc atggactggt ctggtgaatg tggaccgtct gctttaatca 240  
 tcaattattht aagctcataa ctatggattc attcctcaca cgctttgtga acacagtgat 300  
 cctttggatg tactggttat aatgcaggag cctgttatcc caggctgttt cctatgtgcg 360  
 attgcaatcg gccttatccc gaatattgat cagggagaag cagatgac 408

<210> 471  
 <211> 424  
 <212> DNA  
 <213> Zea mays

<400> 471

agcgtcaccg tcctgggtgat cacgcccaga tcaaatacta ttcaaatttg gagcgcaata 60  
 tggctgaaga gaagagccgt ccgcggctga acgagcggat catgtcgtcc ctctcaaagc 120  
 ggtcggtcgc tgcgcattcc tggcatgacc ttgagatagg acctggagcc cctgctgttt 180  
 tcaattgtgt tgttgagatc acaaagggca gtaaagtga atatgagcta gacaagaaga 240  
 ccggaatgat caaggttgac aggggtgctat actcatcagt ggtctacca cacaactacg 300  
 gtttcattcc acgaacattg tgtgaagacg gagatccaat ggatgtgctg gtgttgatgc 360  
 aggaaccggt gatacctggc tgttttcttc gggcaagggc catcggcctt atgcccata 420  
 ttga 424

<210> 472  
 <211> 472  
 <212> DNA  
 <213> Zea mays

<220>  
 <221>       unsure  
 <222>       (1)..(472)  
 <223>       unsure at all n locations  
  
 <400>       472  
  
 agaaatggtg tnnncctaaa tctcagcctg atnctttacc actccctccg gnatccgggc   60  
 aagcgccgga tccacgcgtc ccgtgactcg tggtcggtgc cccgttgctg ctctgtaaaa   120  
 ccagacggcg aaccactgct gcggtccact gcatcccggg tccgtcttct cgtgccatgc   180  
 tacggttgct ttctcccgtc ggcgcctgcg cagatttggc cgccgtcgcc gctgaccag   240  
 gctgtcttga tggcgcccgga tgcagaagcc gctaagggga caggcacctg tccacaaagg   300  
 tgctctgcca ttgaacgaaa ggatactggc atgcatgtcc aggaggtctg ctgctggaca   360  
 cccttgcat gatctggaga taggcctg agctccaacc atattcaact gcgtcattga   420  
 gatacccagg ggcagcaagg ttaatatga acttgacaag gaaactggac tg           472

<210>       473  
 <211>       239  
 <212>       DNA  
 <213>       Zea mays  
  
 <400>       473  
  
 catgtacacc gtcttaagag agttaaatgt tagtgcttgc ctctgttag attgaatggg   60  
 cggtttaacc gagacattca gacaagaaga atgagaacaa ggaggttgct gcgaatgact   120  
 ttctaccagc gagcgccgct tatgaagcca tacagcactc tatggacctg tatgctacat   180  
 acatcgcttg agggcctgaa gaggtaggat tctgatggct aggaaaggtc gcgaggatg   239

<210>       474  
 <211>       429  
 <212>       DNA  
 <213>       Zea mays  
  
 <400>       474  
  
 cccacgcgtc cgccgaaact ccgacagtcc gaccacaaga aggatgagtg aagaggatga   60  
 gactgctgct tctgctgagc agccgaagag ggcccctaag ctcaatgaaa ggatcctctc   120  
 ttctctgtcc aggaggtccg tagctgtca tccatggcat gatcttgaga tcggtcctga   180

tgctcctgct gttttcaatg ttgttggtga gatcacaaag ggaagcaaag ttaaataatga 240  
 gcttgacaag aaaactggac tgattaaggt tgatcgagtc ctgtactcat cagttgtata 300  
 ccctcacaat tatggtttcg ttccaaggac tctttgtgaa gacaatgacc caatggatgt 360  
 gttagtccctg atgcaggagc ctgttggtcc tggttcggtc ctgagagcaa gagcaatcgg 420  
 ccttatgcc 429

<210> 475  
 <211> 399  
 <212> DNA  
 <213> Zea mays

<400> 475

cggccacact ggaagccgga gagaatcgag catagccacc gatcgctcct ctccactggg 60  
 cagattccag ttccactccg cctccgctgc cggtcgcca ctccgaaact ccgacagtcc 120  
 gaccacaatg atccacatat agatgagtgg agaggataag gctgctgctt ctgctgagca 180  
 gccgaagagg gccctaagc tcaatgaaag gatcctctct tctctgtcca ggaggtccgt 240  
 agctgctcat acgtggcatg atcttgagat cggtcctgat gctcctgctg ttttcaatgt 300  
 tgatgttgag atcacaaagg gaagcaaagt taaatatgag ctgcacaaga aaactggact 360  
 gattaagggt gatcgagtcc tgtactcatc agttgtata 399

<210> 476  
 <211> 390  
 <212> DNA  
 <213> Zea mays

<400> 476

ccgcagtgca ggactgagga tgagtgaaga ggataaggct gctgcttctg ctgagcggcc 60  
 taagagggcc cctaagctca atgaaaggat cctctcctct ctgtccagga ggtccgtagc 120  
 tgctcatcca tggcatgac tcgagatcgg tcttggtgct cctgctgtat tcaatgttgt 180  
 tgttgagatc acaaagggaa gcaaagtcaa atacgagctt gacaagaaaa ctggactgat 240  
 taaggttgat cgagtccttt actcatcagt tgtataacct cacaattatg gtttcattcc 300  
 aaggactctt tgtgaagaca atgaccaat ggatgtgttg gtcctgatgc aggagcctgt 360  
 tgttcctggt tcgttcctga gagctagagc 390

<210> 477  
 <211> 398  
 <212> DNA  
 <213> Zea mays

<220>  
 <221> unsure  
 <222> (1)..(398)  
 <223> unsure at all n locations

<400> 477

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cggacgcgtg ggcggacgcg tgggcggacg cgtgggccga tcgctcctct ccactgtcca 60
gattccagtt ccactccgcc tccgctgccg gtcgccgact ccgaaactcc gacagtccga 120
ccacaaggtc ttgtgcgga tccacagaag gatgagtga gaggataaga ctgctgcttc 180
tgctgagcag ccgaagaggg cccctaagct caatgaaagg atcctctctt ctctgtccag 240
gaggtcgta gctgctcatc cgtggcatga tcttgagatc ggtcctgatg ctctgtgtgt 300
tttcaatggt gttgttgaga tcacaaaggg aagcanagtt aaatatgagc ttgacaagaa 360
aactggactg attaanggtg atcgagtcct atactcat 398
```

<210> 478  
 <211> 362  
 <212> DNA  
 <213> Zea mays

<400> 478

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gggaagcaaa gttaaatatg agcttgacaa gaaaactgga ctgattaagg ttgatcgagt 60
cctatactca tcagttgtat accctcacia ttatggtttc gttccaagga ctctttgtga 120
agacaatgac ccattggatg tgttggctct gatgcaggag cctgttattc ctgggttcgtt 180
cctgcgagca agagcaatcg gccttatgcc catgattgac cagggtgaaa aggatgacaa 240
gataatagca gtctgtgctg atgatcctga atatcgtcac tacaacgaca tcagttagct 300
gtcttctcat cgcttgcaag agatcaagcg gttctttgaa gattattaga agaatgaaga 360
tt 362
```

<210> 479  
 <211> 410  
 <212> DNA  
 <213> Zea mays

<400> 479

gacccaatgg atgtgttggt cctgatgcag gagcctgttg ttcttggttc gttcctgaga 60  
gctagagcaa ttggccttat gcccatgatt gaccaggggtg aaaaggatga caagataata 120  
gcagtatgtg ctgacgatcc tgaataccgt cactacaacg acatcagcga gctgtctcct 180  
caccgcctgc aagagatcaa gcgcttcttt gaagattaca agaaaaacga gaacaaagaa 240  
gtcgcagttg atgcattctt gcccgcgaca acagctcaag aagccattca gtactccatg 300  
gacctgtatg cccagtatat ttgcaaagc ttgaggcagt agattgcaag caacaattta 360  
tctatcatgc gtcttgatc ggggcgtgat ttttaataagc cgaatcgctt 410

<210> 480

<211> 373

<212> DNA

<213> Zea mays

<400> 480

gctcctctcc actttccaca ttccagttcc actccgactg cgctgccggt cgccgactcc 60  
gaaactccga cagtccgacc acaaggctct gtgcgggata cacagaagga tgagtgaaga 120  
ggataagact gctgcttctg ctgagcagcc gaagagggcc cctaagctca atgaaaggat 180  
cctctcttct ctgtccagga ggtccgtagc tgctcatcca tggcatgata ttgagatcgg 240  
tctgatgct cctgctgttt tcaatgttg tggtgagatc acacagggat gcaaagctta 300  
atatgaactt gacaagaaaa ccggactgat taagggtgat cgagtcctgg acttatcagt 360  
tgtataccct tac 373

<210> 481

<211> 428

<212> DNA

<213> Zea mays

<400> 481

cccactctcc gaaggactct ttgtgaatac aatgacccaa tggatgtgtt ggtcctgatg 60  
catgagcctg ttgttcttg ttcggtcctg agagctagag caattggcct tatgcccatg 120  
attgaccagg gtgaaaagga tgacaagata atagcagtat gtgctgacta tctgaatac 180  
cgtcactaca acgacatcag cgagctgtct cctcaccgcc tgcaagagat caagcgcttc 240



tttgaagatt acaagaaaaa cgagaacaaa gaagtcgcag ttgatgcatt cttgcccgcg 300  
acaacagctc aagaagccat tcagtactcc atggacctgt atgcccagta tatttttgcaa 360  
agcttgaagc agtagattgc aagcaacaat ttatctatca tgcgtcttgg atcggggcgt 420  
gatttttaa 428

<210> 482  
<211> 384  
<212> DNA  
<213> Zea mays  
<400> 482

aggtcaatac aacgacatca gcgagctgtc tcctcaccgc ctgcaagaga tcaagcgctt 60  
ctttgaagat tacaagaaaa acgagaacaa agaagtcgca gttgatgcat tcttgcccgc 120  
gacaacagct caagaagcca ttcagtactc catggacctg tatgcccagt atattttgca 180  
aagcttgagg cagtagattg caagcaacaa tttatctatc atgcgtcttg gatggggggcg 240  
tgattttaat aagccaaatc gcttgctata ttgggaacct tggaattgag aacagcgctca 300  
ctagctgtga ttcgctcctt tctcgtaaata ttatcatatg aataggccaa gtccatacgt 360  
ttaccgtgtg gcgctctgtc agtc 384

<210> 483  
<211> 435  
<212> DNA  
<213> Zea mays  
<400> 483

ggtttgcagg cgttgtcttc cggatttttg tccactacac tggtcagcct cttcttgagg 60  
ctaaagttgt agcctccatg ctgatgtttg cgacggtcgc tgggattctc atggcactct 120  
tcttgaacac tgctggcggc gcctgggata atgcacagaa gtacattgag actggcgctc 180  
ttggtggcaa gggcagcgag tcccacaagg ctgcggttac tggcgacacg gttggagacc 240  
cattcaaaga cactgctgga ccgtcgctgc atgttcttat caagatgctc gccacaatca 300  
cgctggatcat ggctccgata ttcttgtgat taaccaacca ctcatcaagc ttgctattaa 360  
ccctgcggag atgtacctat gcgaccaggc agatgagggtg tgtgtgtgtg tgtgttacct 420  
gcatgtgatg atgta 435

<210> 484  
 <211> 322  
 <212> DNA  
 <213> Zea mays

<400> 484

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cggacgcgtg cgctcacgtg gttgagtctc ctatttgcag caaggtaag tacgacggcg 60
acagggcatc tggctctgatc aaggtggacc gtgttcttta ttcctctgtt gtttaccac 120
ataactatgg cttcattcca ctgcacactc tgtgaggata acgacccctt ggatgtcctc 180
atactgatgc aggaacaagt tgtccctgtg tgattcctgc gagctcgtgc tattgggctc 240
atgcctatga tcgatcaggt ctagtgtctt cgtcacctga tcgcatagtg cttgctatgt 300
ttaccttagg ccatatattt tt 322

```

<210> 485  
 <211> 441  
 <212> DNA  
 <213> Zea mays

<220>  
 <221> unsure  
 <222> (1)..(441)  
 <223> unsure at all n locations

<400> 485

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gggacaacgc caagaagtac attgaggctg gagtttcaga gcatgccaaag acccttggcc 60
caaaagggtc tgaccctcac aaggcggctg tcattgggtga caccattgga gatccctcta 120
aggacacgtc tggccctttc ctcaacatcc tcatcaagct tatggcggtt gaatcccttg 180
tcttcgccc n cttcttcngc cgccatggtg gcattctctt caaatggctc taagccagcg 240
agagacgcan gataaaagcc gtagttttgc aaggcgagta gagcagtatg tcagtaatac 300
agcatctatg gcatgtgctt ttgctcgtcc agttcatgag ccccgttgtg tatttggttt 360
ccgttttctt gggtggagtt tttagttcca aagtcgatc atgttttgat ccataaatt 420
ctcttcacgc cttcgagcaa c 441

```

<210> 486  
 <211> 468  
 <212> DNA

<213> Zea mays  
 <400> 486

atcgccgtgt ggcgcgacga ccccgagtag cgtcactaca acgacatcag cgagctctgc 60  
 cctcaccgcc tacaggagat ccgcccgttc ttcgaagact acaagaagaa cgagaacaag 120  
 gaggtggccg tcaacgactt cctgcccgcc gccgctgccc gcgaagccat ccagtactgc 180  
 atggacctgt acgggcagta catcatgcag accctgcggc ggtagagcgt gtcctaccag 240  
 atcccatgcg agctgagctg acgcaagagc acagatcgac agaatccttg tggcttagtc 300  
 tcatgcatgg atagccaggt cacatggctt gtcgacgacc atgcatctgt tcttcccagc 360  
 gattctagcc tgtatctgcc cttatttata gtctcttggg tttggtggaa tctgtccaca 420  
 gtgtggcttg atctatgtac tactcttcta catttctacc agaacgaa 468

<210> 487  
 <211> 481  
 <212> DNA  
 <213> Zea mays

<400> 487

gcctggcgca gcgtcagttg ccagcacggt ctagcaatcc ggtcggccac gcgtccgagg 60  
 aaacgtgggc ggacgcgtgg gcacgcacac tctgtgagga taacgacccc ctgaatgtcc 120  
 tcatactgat gcaggaacaa gttgtccctg ggtgtttcct gcaagctcgt gctattgggc 180  
 tcatgcctat gatcgatcag ggcgagaaag atgataagat tatagcagtc tgtgctgatg 240  
 accctgaatt ccgtcactac acggacatca cggacctccc accgcatcgc cttcaagaga 300  
 tccgccgctt ttttgaagat tataaaaaga acgaaaataa ggaggtcgca gtgaatgagt 360  
 tcctgccagc gaaagatgcc atcaacgcaa tcaagtactc gatggacctg tatggctcat 420  
 acgtcatcga aagcctgagg aagtgatctc cagctgcttg attgtggttg tggatgctac 480  
 a 481

<210> 488  
 <211> 416  
 <212> DNA  
 <213> Zea mays

<400> 488

cccacgcgtc cgcattccatg tccaggaggt ctgttgctgc acacccttgg catgatctgg 60  
 agataggtcc tgggtgctcca accatattca actgcgtcat tgagatacca aggggcagca 120  
 aggttaaata tgaacttgac aagaaaactg gactgatcaa ggtggaccgt gtgctgtatt 180  
 catcagttgt ttaccctcac aactatggat tcattcctcg cacgctttgt gaagacagtg 240  
 atcctttgga tgtactgggtt ataatgcagg agcctgttat cccaggctgt ttcctacgtg 300  
 cgaaggccat cggccttatg ccgatgattg atcagggaga ggcagatgac aagatcattg 360  
 cagtgtgcgc tgatgatccc gagtacaggc attacaatga tatcaaggag ctccca 416

<210> 489  
 <211> 400  
 <212> DNA  
 <213> Zea mays

<220>  
 <221> unsure  
 <222> (1)..(400)  
 <223> unsure at all n locations

<400> 489

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 actggttata atgcaggagc ctgttatccc aggctgtttc ctacgtgcga aggctatcgg 120  
 ccttatgccg atgattgate agggagaggc agatgacaag atcattgcag tgtgcgctga 180  
 tgatcccgag tacaggcatt acaatgatat caaggagctc ccacctcacc gcttggctga 240  
 aatcaggcgc ttcttcgagg actacaagaa gaatgagaac aaggagggtg ctgtgaacga 300  
 ctntctacca gcgagcgccg cttatgaagc catacagcac tctatggatc tgtatgctac 360  
 atacatcngt gagggcctga ngaggtaaga ttctgatggc 400

<210> 490  
 <211> 457  
 <212> DNA  
 <213> Zea mays

<220>  
 <221> unsure  
 <222> (1)..(457)  
 <223> unsure at all n locations

<400> 490

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 aggggggtctt gatggcgccc gctgtagaag ccgttaagga gacaggctcg ttccagaagg 120  
 ttctgcctt gaacgaaagg atactgtcat ccatgtccag gaggtctggt gctgcacacc 180  
 cttggcatga tctggagata ggtcctggtg ctccaacat attcaactgc gtcattgaga 240  
 taccaagggg cagcaagggt aaatatgaac ttgacaagaa aactggactg atcaagggtg 300  
 accgtgtgct gtattcgtca gttgtttacc ctcaacta tggattcatt cctagcactc 360  
 tctgtgaaga cagtgatcct ttggatgtac tggttataat gcatgagcct gttatcccat 420  
 gctgnttcct acgtgcgaag gctatcgccc ttatgcc 457

<210> 491  
 <211> 445  
 <212> DNA  
 <213> Zea mays

<400> 491

cactgatcaa ctgcaacgca atgacgagac tcatgggtcg acgcaagact ctagagtga 60  
 tgctatcagc cttatgccga tgattgatca gggagaggca gatgacaaga tcattgcagt 120  
 gtgcgctgat gatcccgagt acaggcatta caatgatatc aaggagctcc cacctcaccg 180  
 cttggctgaa atcaggcgct tcttcgagga ctacaagaag aatgagaaca aggagggtgc 240  
 tgtgaatgac tttctaccag cgagcgccgc ttatgaagcc atacagcact ctatggacct 300  
 gtatgctaca tacatcgttg agggcctgag gaggtatgat tctgatggct aggaaagggtg 360  
 gggaggatgt tgacgaaaaa ctgggagacc atttaccgca tggaacgagt accgttatta 420  
 ttttatttgt gtcgtgtata ctgct 445

<210> 492  
 <211> 411  
 <212> DNA  
 <213> Zea mays

<400> 492

acgctttccc cgtcggcgcc tctcagatt taatttggac gccgtcggcg ccgctgaccc 60  
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 ttctgcctt gaacgaaagg atactgtcat ccatgtccag gaggtctgat gctgcacacc 180

cttggcatga tctggagata gcgctcctggt gcttcaacca tattcaactg cgtcattgag 240  
 ataccaaggg gcagcaaggt taaatatgaa cttgacaaga aaactggact gatcaaggtg 300  
 gaccgtgtgc tgtattcgac agttgtttac cctgacaact atggattcat tcctcgact 360  
 ctttgccaag acagtgatcc ttttgatgta ctgggtatta ttcaagaacc t 411

<210> 493  
 <211> 423  
 <212> DNA  
 <213> Zea mays

<400> 493

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 ttgtcatctg cctctccctg atcaatcatc ggcataaggc cgatagcctt cgcacgtagg 180  
 aaacagcctg ggataacagg ctctgcatt ataaccagta catccaaagg atcactgtct 240  
 tcacaaagag tgcgaggaat gagaacaagg aggttgctgt gaacgacttt ctaccagcga 300  
 gcgccgctta tgaagccata cagcactcta tggatctgta tgctacatac atcgttgagg 360  
 gcctgaggag gtaggattct gatggctagg aaagtgggga ggatgttgac gaaaaactgg 420  
 gag 423

<210> 494  
 <211> 340  
 <212> DNA  
 <213> Zea mays

<400> 494

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 gtgaaggaga caggcacctt ccagaagggt cctgccttga acgaaaggat actgtcatcc 180  
 atgtccagga ggtctgttgc tgcacaccct tggcatgac tggagatagg tcctgggtgct 240  
 ccaaccatat tcaactgcgt cattgagata ccaaggggca gcaagggtta atatgaactt 300  
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<210> 495

<211> 438  
 <212> DNA  
 <213> Zea mays  
  
 <220>  
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 <222> (1)..(438)  
 <223> unsure at all n locations  
  
 <400> 495  
  
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 cgcgtggacg cgtgccatcc tagggtttct ttccccgtcg gcgcctcncc agatttggcc 120  
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 aggcaccttc cagaaagttc ctgccttgaa cgaaaggata ctgtcatcca tgtccaggag 240  
 gtctgttgct gcacaccctt ggcattgatc ggagataggt cctgggtgctc caaccatatt 300  
 caactgcgtc attgagatac caaggggcag caaggggtata atatgaactt ggaggggaag 360  
 actggactga ttcaagtgga ccgtgtgctg tattcaacag ttgtttaccc tcacaacaat 420  
 ggattcattc ctgcacag 438

<210> 496  
 <211> 419  
 <212> DNA  
 <213> Zea mays  
  
 <400> 496  
  
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 gcattttccg gggacactga ctgccatcag agactggttc agagactaca agatacctga 120  
 tggaaagcct gccacaacaaat ttggtctcgg caacaagccc gcaagcaagg aatacgccct 180  
 gaaggtcatt caagagacca acgaatcatg ggagaaattg gtaaagagaa atattcccgc 240  
 tggagagctc tcgttggcct gatatttgcc catggaagcc accacattct tttgaactgc 300  
 tttcgtgagc atgtcgtttt gtatgctgtg accatgcttc ttcgtttgca ttccaaacct 360  
 tttttacgaa ctgtttaaca aaaatgatct tgtcggataa ataatgattc tgggtgcgag 419

<210> 497  
 <211> 428  
 <212> DNA  
 <213> Zea mays

<400> 497

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ataatgatcc tgttgatggt gttgagatag gtgaaagacg tgccaatgtc ggggacgttc 120  
ttaagggttaa gccattggca gcttttagcaa tgattgatga gggagagctt gactggaaaa 180  
ttgtggccat ttctttggat gacccgaaag catctcttgt gaacgacgtg gatgatgttg 240  
agaagcattt tccggggaca ctgactgcca tcagagactg gttcagagac tacaagatac 300  
ctgatggaaa gcctgccaac aaatttggtc tcggcaacaa gcccgcaagc aaggaatacg 360  
ccctgaaggt cattcaagag accaacgaat catggggagaa attggtaaag agaaatattc 420  
ccgctgga 428

<210> 498

<211> 313

<212> DNA

<213> Zea mays

<400> 498

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ccacctgtgc ccaagccgtc gcgcaggcct tcccgcacac ctttggccag ccgctcgtca 180  
tcttcgtcgc gccggccgce ggcgccggcg ccgttagagg agcgccacce gatcagggtg 240  
ggcgtggtgt tctctgggag gcagtcgccg ggatggcaca acgtcgtctg gggcctccat 300  
gacgcactta aag 313

<210> 499

<211> 256

<212> DNA

<213> Zea mays

<400> 499

cccacgcgtc cggatcagag gaggcattccg tgaccaaaga tcgagtagcc aagaagaaga 60  
gagatgaacg ccgacttcgg cgcgcccacg gagctcgcgg gaggcctgca gcagcggcgg 120  
gccctctacc agccccgcct cccgccatgc ctccaggagc cgacggtaag ggcggagtac 180  
ggtgacgcga ccacaaccat agatcccacc tgtgcccaag ccgtcgcgca ggccttcccg 240



cacacctttg gccagc 256

<210> 500  
 <211> 277  
 <212> DNA  
 <213> Zea mays

<400> 500

cccacgcgtc cggaacagac gtttgaagga gggcacttac aaaggaaaga aagttaatgc 60  
 aatctgtcac ttctttggct accaagctag gggagcactg cttccaagt ttgactgcga 120  
 ttatgcctat gtcttggggc atgtgtgcta ccacatcata gctgccggtt tgaacggtta 180  
 catgggcaca gtgacaaatg ttaagagtcc agtgaacaag tggcgatgtg gtgcggctcc 240  
 tatttcgtct atgatgactg tgcagcgatg gtcgcgt 277

<210> 501  
 <211> 132  
 <212> DNA  
 <213> Zea mays

<400> 501

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 catttgctga gg 132

<210> 502  
 <211> 290  
 <212> DNA  
 <213> Zea mays

<400> 502

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 tgtgacggag aactgaaca tcatgacctc atcgccacc ggccagactg cactgtgact 120  
 cgtttggtgc cgttttgtgg tgccgatcag aatccccact tttccatgg tgtcgattga 180  
 caaagttagg agcagtaatc ctgtggtgcc gatcagaatc cccacttttt ccatggtgcc 240  
 acacgggtca ttcttttgta gcttcttggg agagttctat cagttttgaa 290

<210> 503  
 <211> 290  
 <212> DNA  
 <213> Zea mays

<400> 503

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 cgtttggtgc cgttttgtgg tgcggatcag atccccactt ttccatggt gtcgattgac 180  
 aaagttagga gcagtaatcc tgtggtgcgg atcagaatcc ccactttttc catggtgcca 240  
 cacgggtcat tcttttgtag cttctcggga gagttctatc agttttgaat 290

<210> 504  
 <211> 275  
 <212> DNA  
 <213> Zea mays

<400> 504

gcgccacccg caccaccaa cgaggcaacg aaaccacgct ggaagctaga ccggcgacaa 60  
 gtgcagcgct cgcccgcatg gatactgact acggcggtgcc gcgcgagctg tcggaggtgc 120  
 agaagaagcg cgcgctctac cagcccgagg tgccccctg catccagggg actactgtca 180  
 ggggtggagta tgggtgacgcc gcaattgcag ctgaccaggc aggcgctcat gtgatcagcc 240  
 atgcgttccc tcacacctat gggcagcccc ttgca 275

<210> 505  
 <211> 255  
 <212> DNA  
 <213> Zea mays

<400> 505

cagctttctc agattgaaga ccagaagaac tttctacccc agttagttga gactgaaatg 60  
 gacagacttt tgaaggaggg cacttacaaa ggaaagaagt ttaatgcaat ctgtcacttc 120  
 tttggctacc aagctagggg agcactgcct tccaagtttg actgcgatta tgcctatgtc 180  
 ttggggcatg tgtgctacca catcatagct gccggtttga acggttacat ggccacagtg 240  
 acaaatgtta agagt 255

<210> 506  
 <211> 421  
 <212> DNA  
 <213> Zea mays

<400> 506

ctttttgttg gaagatgtct acaggaaccc aagcccgggt cagtttgaag ggccaagtgc 60  
 ccattcaaag cctatgtgag ttgtccttga aggttcagaa ctttttggcc ggattaaaaa 120  
 agttcaggat tccttggaag aggtgaaaag gattgtgaac cctgggtgct cgcaggatgt 180  
 tcttaaagcg gcgctgagtg ccatgtcttc tgtgacggaa aactgaaca tcatgacttc 240  
 atcttctacc ggccagactc cactgagtca ttaggtacca tttcatggta tggatcataa 300  
 tccccacttt tttcagtggg ggcgattaac gagtttagga acagcaaccc tggatcata 360  
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 g 421

<210> 507  
 <211> 363  
 <212> DNA  
 <213> Zea mays

<400> 507

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 ctgtgacgga gatgttgacc atcatgtctt ccctttcatt tagtggacag gcgaccatct 120  
 gaaggccaag ctgaagatgt catatgtctg tgcgctgtca tgtcccgaac atatttgtgt 180  
 ttttttggga aagaaacata caattttttg ttctcattct agtatcgtct acctatgtca 240  
 aactacaata tgataggacc cttgcgaaat aattgtttcg tttgctggta tttctcatct 300  
 ttgatgctaa aaaaaaagga catattgtgt aagaaagttc aagggtgcac atcacaccaa 360  
 tat 363

<210> 508  
 <211> 171  
 <212> DNA  
 <213> Zea mays

<400> 508

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acgagagctt acagatccga atgggcccgt gtactacaac ggcattgtacc acctgttcta 120  
ccagtacaac ccgcacgggg cgctctggga cgtgggcaac ctctcatggg g 171

<210> 509  
<211> 142  
<212> DNA  
<213> Zea mays

<220>  
<221> unsure  
<222> (1)..(142)  
<223> unsure at all n locations

<400> 509

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ctggatcggc ccggacggnt tgtggangat agccgtcggg gccgaggtcg acggccacag 120  
cncggngctt ctgtacgana gc 142

<210> 510  
<211> 288  
<212> DNA  
<213> Zea mays

<400> 510

gctcctccat ggccatggcc atggcccga cttgtgcttt cttctcttcc ttcttagttc 60  
ttttctccta cgacggatcc ggtcctgca gcagcaggag gactaggagg agtggcgctg 120  
cgcaggccac gcagagagtc ttctgtatc cacaggctcc caaggtctcc tccatcgtga 180  
gcagcaagta caggaccgag taccacttcc agcctcccaa gaactggatc aacgatccaa 240  
atggaccaat gtactacaat ggtatctacc accagttcta ccagtaca 288

<210> 511  
<211> 241  
<212> DNA  
<213> Zea mays

<400> 511

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taccagatgc caagggtaca aaatgcaatg tggagctcga gccagttgaa aatacaaaac 120

attccacat acttcgtgtg ccattcaaga ctgaaaacgg caaggagttg cgccagtggg 180  
 tgtcccgggt tgacatctac ccttacctag agagatatgc ccaggattct tgtgccaaaa 240  
 t 241

<210> 512  
 <211> 185  
 <212> DNA  
 <213> Zea mays

<220>  
 <221> unsure  
 <222> (1)..(185)  
 <223> unsure at all n locations

<400> 512

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 cagtengcgc gtacgtcttn gngccacctn ctctctcat cccaatgaac tgatagcact 120  
 ctagtccagg tatgtccacc atggcaattg aatgcgtcag cgccatcagc tgctttcgga 180  
 gtatg 185

<210> 513  
 <211> 285  
 <212> DNA  
 <213> Zea mays

<400> 513

ggaagagatc gcggagatag agaagatgca tgaactcatc aagaccacaca acttgttcgg 60  
 gcagttccgc tggatctctg ccagacaaa cagggcccggt aacggcgagc tctatcgcta 120  
 catcgtgat acccatggtg ctttcgtaca gccggccttc tatgaagcgt tcggtctcac 180  
 cgtcgttgaa gccatgacct gtggacttcc tacttttcgcg acgctccatg gagggccagc 240  
 tgagatcata gagcatggcg tctcgggctt ccacattgac ccgta 285

<210> 514  
 <211> 112  
 <212> DNA  
 <213> Zea mays

<400> 514

gtccatttga tttgcgttca ctgcgttgcg tttccttgga ggggattggt ctctcctctc 60

catgggattg gaggtccctc cttcttctcc tctctctctc agatgaacgc ct 112

<210> 515  
 <211> 135  
 <212> DNA  
 <213> Zea mays

<400> 515

gctccagggg agacaatgtt gaacttgga tcgaaaaccg acaagagact cactgctcat 60

ccagatcgag agtcatctaa ggacgtcaga ctgcacact cggctagaca gaaagcgtca 120

ctccgagggg ccacg 135

<210> 516  
 <211> 297  
 <212> DNA  
 <213> Zea mays

<400> 516

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ctgctggtga aattgctgct gaattacaag gtactccaga cttcataatt ggaaactaca 120

gtgatggaaa tcttgtggca tcgttgctat cttacaagat ggggaattacc cagtgaaca 180

ttgctcatgc tctggaaaag actaagtatc cagattcaga catattttgg aagaatttcg 240

atgagaagta ccatttctcc ttcagttcac ggctgatata attgctatga acaatgc 297

<210> 517  
 <211> 202  
 <212> DNA  
 <213> Zea mays

<400> 517

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ttgcggagtt tgatgccctg tttggatagt gacaaggaga agtatgcacc ctttgaagac 120

atttctcgtg ctgctcagga agcaattgtg ctccccccat gggttgcact tgctatgggg 180

ccaagtccgg ttgtctggga tt 202

<210> 518  
 <211> 346

<212> DNA  
 <213> Zea mays  
 <400> 518  
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 tacagccaca agggcttgat gtttcccca agattcacat tgctagtcgg ctgatcatag 180  
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 acatattacg agttcacttc tgagatgaaa atgggatact tatgaagtgg atatcaagat 300  
 tatgatgaga ggcgatatct ggagacattt gctgaggatg ctgctg 346

<210> 519  
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 ca 62

<210> 520  
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 tcaacattgt 250

<210> 521  
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tgttgaatga cagaatccaa ag 142

<210> 522  
<211> 264  
<212> DNA  
<213> Zea mays

<400> 522

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tgcaagcaag acccagatca ctgggtgaaa atatctggag cagggctgca gcgcatatac 180  
gagaagtaca catggaagat ctactcagag aggttgatga cactggccgg ggtctacggt 240  
ttctggaagt acgtgtcgaa gctc 264

<210> 523  
<211> 310  
<212> DNA  
<213> Zea mays

<220>  
<221> unsure  
<222> (1)..(310)  
<223> unsure at all n locations

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cgatgagaag taccatttct cctgtcagtt cactgctgat ataattgcta tgaacaatgc 180  
tgattttatc atcaccagca cataccaaga aattgctgga agcaaaaata ctggttgaca 240  
gtatgagagt catactgctt ttactctgcc tggctctgtac cgagttgtcc atgggatcga 300  
tgtcttcgat 310

<210> 524  
<211> 181  
<212> DNA



<213> Zea mays

<400> 524

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actgttggac agtatgagag tcatactgct tttactctgc ctgggtctgta ccgagttgtc 120  
catgggatcg atgtcttcga tccaaagttc aatatagtct ctctggagc tgacatgtcc 180  
a 181

<210> 525

<211> 148

<212> DNA

<213> Zea mays

<400> 525

cacataccaa gaaattgctg gaagcaaaaa tactgttggga cagtatgaga gtcatactgc 60  
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caatatagtc tctctggag ctgacatg 148

<210> 526

<211> 283

<212> DNA

<213> Zea mays

<400> 526

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acccggagca aaacgatgaa cacattgggc atctggatga ccggtcaaag cccatcctct 180  
tctccatggc aagactcgac aggggtgaaga acataacggg gctggtcgaa gcttttgcca 240  
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<210> 527

<211> 150

<212> DNA

<213> Zea mays

<400> 527

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gttcaatcga aaatttgatt tatgaccgg 150

<210> 528  
<211> 255  
<212> DNA  
<213> Zea mays

<400> 528

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caaagcttgg ggaggcttca gtctgtgctg accaaagctg aggagcactt gtcaaagctc 180  
cctgctgaca caccatactc acaatttgct tataaatttc aagagtgggg cctggagaaa 240  
ggtgggggtga tacag 255

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<211> 137  
<212> DNA  
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caaagctgag gagcact 137

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<211> 293  
<212> DNA  
<213> Zea mays

<400> 530

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tgagggtcaa cgtcagttag ctccgtgttg aggagctgag agttcctgag tacctgcagt 180  
tcaaggaaca gcttgtggaa gaaggcccca acaacaactt tgttcttgag ctggactttg 240  
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 <213> Zea mays

<400> 531

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gttgcaacttg ccatccgccc taggcctggg gtccgggagt atgtgaaggt caacgtcagt 120
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gaagaaggcc ccaacaacaa ctttgttctt gagctggact ttgagccatt caatgcctcc 240
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<210> 532  
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 <213> Zea mays

<400> 532

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<400> 533

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gatgcatgaa ctcatcaaga cccacaactt gttcgggcag ttccgctgga tctctgcccc 180
gacaaacagg gcccgtaacg gcgagctcta tcgctacatc gctgataccc atgggtgcttt 240
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<400> 534

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 gaacaagcgg ctgcaggagc tgggtgaacct cgtggtcgtc tgcggcgacc atggcaaccc 240  
 ttccaaggac aaggaggagc aggccgagtt caagaagatg tttgacctca tcgagcagta 300  
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 <212> DNA  
 <213> Zea mays

<400> 535

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 ctaccacttc tcgtgccagt tcaccactga cttgattgca atgaaccatg ccgacttcat 180  
 catcaccagt accttccaag agatcgccgg aaacaaggac accgtcggcc agtacgagtc 240  
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 ctccaagttc aacatcgtgt ctcttggcgc 330

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 <212> DNA  
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gaatggcatc ctccgcaagt ggatctctcg ttttgatgtc tggccatacc tggagacata 180  
 cactgaggat gtttccagtg aaataatgaa agaaatgcag gccaaagcctg accttatcat 240  
 tggcaactac agcgatggca acctagtgcg cactctgctc gcgcacaagt tgggagtcac 300  
 tcagtgtacc atcgctcatg ccttgagaaa aa 332

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 <211> 340  
 <212> DNA  
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<400> 537

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 ctaccacatc gacccttacc agggcgacaa ggcgtcggcc ctgctcgtgg acttcttcga 180  
 caagtgccag gcggagcgat gccactggag caagatctcc cagggcgggc tccagcgtat 240  
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<210> 538  
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 <213> Zea mays

<400> 538

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 gcgaccatgg caacccttcc aaggacaagg aggagcaggc cgagttcaag aagatgtttg 240  
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<400> 539

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 ttgcgtgttt gctcgccac aagatgggtg ttactcactg taccattgcc catgcgcttg 240  
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 <212> DNA  
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<400> 540

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 aagatcctta ttgtcaccag gttgctccct gatgcaactg gcaccacctg tggccagcgc 180  
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 ggacctcctg gaggccccag atccgtccac cctggagaag ttccttggaa cgatcccat 240  
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 gggatatctgg cctgcacatt gacccttacc acagcgacaa ggccgcggat atcctgggtca 180  
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 actacagtga cggaaacctt gttgcgtgtt tgctcgccca caagatgggt gttactcact 180  
 gtaccattgc ccatgcgctt gagaaaacta agtaccctaa ctccgacctc tactggaaga 240  
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 gttcgacccc aagttcaaca tcgtgtctcc tggcgcggac ctgtccatct acttcccgtta 180

caccgagtcg cacaagaggc tgacctccct tcacccggag attgaggagc tcctgtatag 240  
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<400> 545

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 ctctaccgtg tcgtccatgg catcgatgtt ttcgatccca agttcaacat tgtctccctt 180  
 ggagcagaca tgagtgttta ctaccggtat acggaaaccg acaagagact cactgccttc 240  
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 <212> DNA  
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<400> 546

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 gcagtgtggc cttgacatca cgccgaagat ccttattgtc accaggttgc tccctgatgc 180  
 aactggcacc acctgtggcc agcgccttga gaaggtcctt ggcaccgagc actgccatat 240  
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<210> 547  
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<400> 547



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 aacaagcggc tgcaggagct ggtgaacctc gtggctcgtct gcggcgacca tggcaaccct 240  
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<400> 548

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 cggcaagaac gcgcgcctga gggagctggc gaacctcgtg atcggtgccg gtgaccacgg 180  
 caaggagtcc aaggacaggg aggagcaggc ggagttcaag aagatgtaca gcctcatcga 240  
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<400> 553

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 <212> DNA  
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<400> 562

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<400> 563

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 aagtggatct ctcgttttga tgtctggcca tacctggaga catacactga ggatgtttcc 240  
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<400> 565

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<213> Zea mays

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ctactgggac aagatctcac agggcggcct gcagagaatt tatgagaagt acacctggaa 240  
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caacctggag 310

<210> 567

<211> 320

<212> DNA

<213> Zea mays

<400> 567

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gcatgagatt gctggagagc ttcaggccaa tcctgacctg atcatcgga actacagtga 120  
cggaaacctt gttgcgtggt tgctcgccca caagatgggt gttactcact gtaccattgc 180  
ccatgcgctt gagaaaacta agtaccctaa ctccgacctc tactggaaga agtttgagga 240  
tcactaccac ttctcgtgcc agttcaccac tgacttgatt gcaatgaacc atgccgactt 300  
catcatcacc agtaccttcc 320

<210> 568

<211> 311

<212> DNA

<213> Zea mays

<400> 568

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ctggatctcc gccagatga accgcgtccg caacggcgag ctgtaccgct acatctgcga 120  
caccaagggc gccttcgtgc agcctgcttt ctacgaggct ttcgggctga cggtggttga 180  
ggccatgacc tgcggcctgc ccacgttcgc caccgcctac ggcgtccggc cgagatcatc 240  
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ctcgtggact t

311

<210> 569  
 <211> 313  
 <212> DNA  
 <213> Zea mays

<220>  
 <221> unsure  
 <222> (1)..(313)  
 <223> unsure at all n locations

<400> 569

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 gagctggact ttgagccatt caatgcctcc ttcccccgct cttctctgtc aaagtccatt 180  
 ggcaatggcg tgcagttcct caacaggcac ctgtcatcaa agctcttcca tgacaaggag 240  
 agcatgtacc ccttgctcaa cttccttcgc gccacaaact acaaggggat gaccatgatg 300  
 ttgaacgaca gaa 313

<210> 570  
 <211> 309  
 <212> DNA  
 <213> Zea mays

<400> 570

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 tgcacggcgt gtctggctac cacatcgacc cttaccaggg cgacaaggcg tcggccctgc 180  
 tcgtggactt cttcgacaag tgccaggcgg acgatgccac tggagcaaga tctcccaggg 240  
 cgggctccag cgtatcgagg agaagtacac ctggaagctg tactcggaga ggctgatgac 300  
 cctcaccgg 309

<210> 571  
 <211> 305  
 <212> DNA  
 <213> Zea mays

<400> 571

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 tccccatgggt gttcaatgtc gttatcctct cccctcatgg ttacttcgct caagctaattg 180  
 tcttgggtta ccctgacacc ggaggccagg ttgtctacat cttggatcaa gtgcgcgcta 240  
 tggagaacga aatgctgctg aggatcaagc agtgtgggtct tgacatcacg ccgaagatcc 300  
 ttatt 305

<210> 572  
 <211> 305  
 <212> DNA  
 <213> Zea mays

<400> 572

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 tcagtgtacc atcgctcatg ccttggagaa aaccaaatac cccaactcgg acatatactt 180  
 ggacaaattc gacagccagt accacttctc ttgccagttc acagctgacc ttattgccat 240  
 gaaccacacc gatttcatca tcaccagcac attccaagaa atcgcgggaa gcaaggacac 300  
 cgtgg 305

<210> 573  
 <211> 306  
 <212> DNA  
 <213> Zea mays

<400> 573

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 tccatctact tcccgtacac cgagtcgcac aagaggctga cctcccttca cccggagatt 180  
 gaggagctcc tgtacagcca aaccgagaac acggagcaca agttcgttct gaacgacagg 240  
 aacaagccaa tcattcttct catggctcgt ctgcaccgtg tgaagaactt gactgggttg 300  
 gtggag 306

<210> 574  
 <211> 332  
 <212> DNA  
 <213> Zea mays

<400> 574

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 ggcgagcacc gtgccgctgg ccgtggagg agagccctcc agcaagtgat gcgtgacggc 180  
 ggccacagac ctgatcgatc gatgagcgag agggagcact cggagtgtcg tgtcttttcc 240  
 cttgccatctt ctttctttct tctttttcct tcccggaggc gaaaaaaaaa gagtctgcat 300  
 ttgctaggcg gcgggcgttc gttgctgctc tt 332

<210> 575  
 <211> 309  
 <212> DNA  
 <213> Zea mays

<400> 575

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 ttgacatcac gccgaagatc cttattgtca ccaggttgct ccctgatgca actggcacca 180  
 cctgtggcca gcgacttgag aaggctcctg gcaccgagca ctgccatata cttcgcgtgc 240  
 cattcagaac agaaaacgga atcgttcgca agtggatctc gcgatttgaa gtctggccgt 300  
 acctggaga 309

<210> 576  
 <211> 306  
 <212> DNA  
 <213> Zea mays

<400> 576

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 acgtttgcca cagcctacgg cggtcgggc gagatcatcg tgcacggcgt gtctggctac 180  
 cacatcgacc cttaccaggc cgacaaggcg tcggccctgc tcgtggactt cttcgacaag 240

tgccaggcgg acccgagcca ctggagcaag atctcccagg gcgggctcca gcgtatcgag 300  
gagaag 306

<210> 577  
<211> 300  
<212> DNA  
<213> Zea mays

<400> 577

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aggagctggg gaacctcgtg gtcgtctgcg gcgaccatgg caacccttcc aaggacaagg 180  
aggagcaggg cgagttcaag aagatgtttg acctcatcga gcagtacaac ctgaacgggc 240  
acatccgctg gatctccgcc cagatgaacc gcgtccgcaa cggcgagctg taccgctaca 300

<210> 578  
<211> 322  
<212> DNA  
<213> Zea mays

<400> 578

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actgtaccat tgcccatgcg cttgagaaaa ctaagtaccc taactccgac ctctactgga 120  
agaagtttga ggatcactac cacttctcgt gccagttcac cactgacttg attgcaatga 180  
accatgccga cttcatcatc accagtacct tccaagagat cgccggaaac aaggacaccg 240  
tcggccagta cgagtcacac atggcggttca caatgcctgg cctgtaccgc gttgtccacg 300  
gcattgatgt gttcgacccc aa 322

<210> 579  
<211> 336  
<212> DNA  
<213> Zea mays

<400> 579

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gcgatttgaa gtctggccgt acctggagac ttacactgat gacgtggcgc atgagattgc 180  
 tggagagctt caggccaatc ctgacctgat catcggaac tacagtgacg gaaaccttgt 240  
 tgcgtgtttg ctgcccaca agatgggtgt tactcactgt accattgccc atgcgcttag 300  
 aacactaagt acgctaactc cgacctctac tggaag 336

<210> 580  
 <211> 303  
 <212> DNA  
 <213> Zea mays  
 <400> 580

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 cgaaatgttc tacgccctga agtaccgtag cctggcaagc caggttccgc tgccttcga 180  
 ttagtacggg gaaagaagaa gcccaggccg gagaaccatc gcctgcattt cgatctgttt 240  
 caccgcaatt cgcattgtta gtcgtgtatt ggagttatgt gtacttggtt tccaagaact 300  
 ttg 303

<210> 581  
 <211> 304  
 <212> DNA  
 <213> Zea mays  
 <400> 581

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 taccctgaca ctggcggta ggttgtgtac attctggatc aagtccgtgc tttggagaat 180  
 gagatgcttc tgaggattaa gcagcaaggc cttgatatca ctccgaagat cctcattgtt 240  
 accaggctgt tgctgatgc tgctgggact acgtgcggtc agcggctgga gaaggtcatt 300  
 ggta 304

<210> 582  
 <211> 304  
 <212> DNA  
 <213> Zea mays

<400> 582

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tctcccctgg agcagacatg agtggtttact acccgatatac ggaaaccgac aagagactca 180  
ctgccttcca tcttgaaatc gaggagctca tctacagcga cgtcgagaac tccgagcaca 240  
agttcgtgct gaaggacaag aagaagccga tcatcttctc gatggcgcgt ctcgaccgcg 300  
tgaa 304

<210> 583

<211> 299

<212> DNA

<213> Zea mays

<400> 583

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cttgagaagg tccttggcac cgagcactgc catatccttc gcgtgccatt cagaacagaa 180  
aacggaatcg ttcgcaagtg gatctcgca tttgaagtct ggccgtacct ggagacttac 240  
actgatgacg tggcgcata gattgctgga gagcttcagg ccaatcctga cctgatcat 299

<210> 584

<211> 299

<212> DNA

<213> Zea mays

<400> 584

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agtaccttcc aagagatcgc cggaaacaag gacaccgtcg gccagtacga gtcacacatg 180  
gcgttcacaa tgccctggcct gtaccgcgtt gtccacggca ttgatgtgtt cgaccccaag 240  
ttcaacatcg tgtctcctgg cgcggacctg tccatctact tcccgtacac cgagtcgca 299

<210> 585

<211> 296

<212> DNA  
 <213> Zea mays  
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 tggccgtacc tggagactta cactgatgac gtggcgcatg agattgctgg agagcttcag 180  
 gccaatcctg acctgatcat cggaactac agtgacggaa accttgttgc gtgtttgctc 240  
 gccacaaga tgggtgttac tcactgtacc attgcccatt cgcttgagaa aactaa 296

<210> 586  
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 <212> DNA  
 <213> Zea mays  
 <400> 586  
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 tcaagaagat gtttgacctc atcgagcagt acaacctgaa cgggcacatc cgctggatct 180  
 ccgcccagat gaaccgcgtc cgcaacggcg agctgtaccg ctacatctgc gacaccaagg 240  
 gcgccttcgt gcagcctgct ttctacgagg ctttcgggct gacggtgggtt gaggccatga 300  
 c 301

<210> 587  
 <211> 293  
 <212> DNA  
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 aagatcctta ttgtcaccag gttgctccct gatgcaactg gcaccacctg tggccagcgc 180  
 cttgagaagg tccttggcac cgagcactgc catatccttc gcgtgccatt cagaacagaa 240  
 aacggaatcg ttcgcaagtg gatctcgca tttgaagtct ggccgtacct gga 293

<210> 588  
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 <212> DNA  
 <213> Zea mays  
  
 <400> 588  
  
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 caaggacaag gaggagcagg ccgagttcaa gaagatgttt gacctcatcg agcagtacaa 180  
 cgtgaacggg cacatccgct ggatctccgc ccagatgaac cgcgtccgca acggcgagct 240  
 gtaccgctac atctgcgaca ccaagggcgc ctctcgtgcag cctgctttct acgagg 296

<210> 589  
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 <212> DNA  
 <213> Zea mays  
  
 <400> 589  
  
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 accattgccc atgcgcttga gaaaactaag taccctaact ccgacctcta ctggaagaag 180  
 tttgaggatc actaccactt ctctgcccag ttcaccactg acttgattgc aatgaaccat 240  
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 cagta 305

<210> 590  
 <211> 297  
 <212> DNA  
 <213> Zea mays  
  
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 catggcaacc cttccaagga caaggaggag caggccgagt tcacgaagat gtttgacctc 240  
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<210> 591  
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 <212> DNA  
 <213> Zea mays  
  
 <400> 591  
  
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 catcgagcag tacaacctga acgggcacat ccgtctggatc tccgcccgaga tgaaccgcgt 240  
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 gttcaacatt gtctcccctg gagcagacat gagtgtttac taccgtata cggaaaccga 240  
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 acaagttcgt tctgaacgac aggaacaagc caatcatctt ctccatggct cgtctcgacc 240  
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<210> 594  
 <211> 302  
 <212> DNA  
 <213> Zea mays

<400> 594

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 cactttctctt gccagttcac agctgacctt attgccatga accacactga tttcatcatc 180  
 accagcacat tccaagaaat cgcgggaagc aaggacaccg tggggcagta cgagtcccac 240  
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 aa 302

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 <212> DNA  
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<400> 595

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 cctgcagaga attt 314

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 tgacaggcct ggtcgagatg tacggcaaga acgcgcgcct gagggagctg gcgaacctcg 300  
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<210> 597  
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 <212> DNA  
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<400> 597

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 caacctagtc gccactctgc tcgcgcacaa gttgggagtc actcagtgtg ccatcgctca 180  
 tgccttgagg aaaaccaaact accccaactc ggacatatac ttggacaaat tcgacagcca 240  
 gtaccacttc tcttgccagt tcacagctga ccttattgcc atgaaccaca ccgatttcat 300  
 catcacc 307

<210> 598  
 <211> 319  
 <212> DNA  
 <213> Zea mays

<400> 598

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 cagtacgagt cacacatggc gttcacaatg cctggcctgt accgcgttgt ccacggcatt 180  
 gatgtgttcg accccaagtt caacatcgtg tctcctggcg cggacctgtc catctacttc 240  
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 tacagccaaa ccgagaaca 319

<210> 599  
 <211> 303  
 <212> DNA  
 <213> Zea mays

<220>

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<222>      (1)..(303)
<223>      unsure at all n locations
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gcctacggcg	gtccggccga	gatcatcgtg	cacggcgtgt	ctggctacca	catcgaccct	180
taccagggcg	acaaggcgtc	ggccctgctc	gtggacttct	tcgacaagtg	ccaggcggag	240
cgnagccact	ggagcaagat	ctcccagggc	gggctccagc	gtatcgagga	gaagtacacc	300
tgg						303

<400>                      600

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agaacttgac	tgggctggtg	gagctgtacg	gccggaacaa	gcggtgcag	gagctggtga	180
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309

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cacctggaag ctctactccg agaggctgat gaccctgacc ggcgtgtacg ggttctggaa 180  
gtacgtgagc aacctggaga ggcgcgagac ccgccgctac atcgagatgt tctacgccct 240  
gaagtaccgt agcctggcaa gccaggttcc gctgtccttc gattagtacg gggaaagaag 300  
aagaagaaga agcccaggcc gga 323

<210> 603  
<211> 333  
<212> DNA  
<213> Zea mays

<220>  
<221> unsure  
<222> (1)..(333)  
<223> unsure at all n locations

<400> 603

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atggctcgtc tcgaccgtgt gaagaacttg actgggctgg tggagctgta cggccggaac 180  
aagcggctgc aggagctggt gaacctcgtg gtcgtctgcg tgcgacatgg caacccttcc 240  
aaggacaagg aggagcaggc cgagttcaag aagatgtttg acctcatcga gcagtacaac 300  
ctgaacgggc acatccgctg gatctccgcc cag 333

<210> 604  
<211> 322  
<212> DNA  
<213> Zea mays

<400> 604

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 cacaagttcg ttctgaacga caggaacaag ccaatcatct tctccatggc tcgtctcgac 180  
 cgtgtgaaga acttgactgg gctgggtggag ctgtacggcc ggaacaagcg gctgcaggag 240  
 ctggtgaacc tcgtggtcgt ctgcggcgac catggcaacc cttccaagga caaggaggag 300  
 caggccgagt tcaagaagat gt 322

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 <211> 290  
 <212> DNA  
 <213> Zea mays

<400> 605  
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 atccccatgg tgttcaatgt cgttatectc tcccctcatg gttacttcgc tcaagctaata 180  
 gtcttggggt accctgacac cggaggccag gttgtctaca tcttgatca agtgcgcgct 240  
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<210> 606  
 <211> 306  
 <212> DNA  
 <213> Zea mays

<400> 606  
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 atctgcgaca ccaagggcgc cttcgtgcag cctgctttct acgaggcttt cgggctgacg 180  
 gtggttgagg ccatgacctg cggcctgccc acgtttgcc aagcctacgg cggctccggcc 240  
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 tcggcc 306

<210> 607  
 <211> 293

<212> DNA  
 <213> Zea mays  
 <400> 607  
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 ccttccaaga gatcgccgga aacaaggaca ccgtcggcca gtacgagtca cacatggcgt 180  
 tcacaatgcc tggcctgtac cgcgttgctc acggcattga tgtgttcgac cccaagttca 240  
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 <212> DNA  
 <213> Zea mays  
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 ggcgcattgag atagctggag agcttcaggc caatacctgac ctgatcatcg gaaactacag 180  
 tgacggaaac cttgttgctg gtttgctcgc ccacaagatg ggtgttactc actgtaccat 240  
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 ggatcactac cact 314

<210> 609  
 <211> 313  
 <212> DNA  
 <213> Zea mays  
 <400> 609  
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 ctttcgggct gacggtggtt gaggccatga cctgcggcct gccacgttc gccaccgcct 180  
 acggcggtcc ggccgagatc atcgtgcacg gcgtgtctgg ctaccacatc gacccttacc 240  
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 ccactggagc aag 313

<210> 610  
 <211> 295  
 <212> DNA  
 <213> Zea mays  
  
 <400> 610  
  
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 cacggagcac aagttcgttc tgaacgacag gaacaagcca atcatcttct ccatggctcg 180  
 tctcgaccgt gtgaagaact tgactgggct ggtggagctg tacggccgga acaagcggct 240  
 gcaggagctg gtgaacctcg tggtcgtctg cggcgaccat ggcaaccctt ccaag 295

<210> 611  
 <211> 310  
 <212> DNA  
 <213> Zea mays  
  
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 cttttttagt agtctgatgg actgtagta gtttgcgttg cgtcggttga gagggaaact 180  
 tgggtggtggt ggtgtgtgtg cagtcaggcg tgggtgctccc tttgtttcct ggatgggatg 240  
 ttgctccttg aataataatc gtagtggcct tggagccctt ttctgaaat aagagcagca 300  
 tcctagtgtc 310

<210> 612  
 <211> 307  
 <212> DNA  
 <213> Zea mays  
  
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 tgcagcctgc tttctacgag gctttcgggc tgacggtggt tgaggccatg acctgcggcc 180  
 tgcccacgtt cgccaccgcc tacggcggtc cggccgagat catcgtgcac ggcgtgtctg 240



gctaccacat cgacccttac cagggcgaca aggcgtcggc cctgctcgtg gactttctcg 300  
acaagtg 307

<210> 613  
<211> 302  
<212> DNA  
<213> Zea mays

<400> 613

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gatcctgcc aacttgagaa gttccttga actataccaa tgatgttcaa tgttggtatc 180  
ctttctctc atggctactt cgctcagtc aatgtgcttg gataccctga cactggcggt 240  
caggttgtgt acattctgga tcaagtcgt gctttggaga atgagatgct tctgaggatt 300  
aa 302

<210> 614  
<211> 304  
<212> DNA  
<213> Zea mays

<400> 614

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gccggaacaa gcggctgcag gagctggtga acctcgtggt cgtctgcagc gaccatggca 180  
acccttccaa ggacaaggag gagcaggccg agttcaagaa gatgtttgac ctcatcgagc 240  
agtacaacct gaacgagcac atccgctgga tcatccgcca gatgaaccgc gtccgcaacg 300  
gcga 304

<210> 615  
<211> 295  
<212> DNA  
<213> Zea mays

<400> 615

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cccagatgaa ccgcgtccgc aacggcgagc tgtaccgcta catctgcgac accaagggcg 120  
 ccttcgtgca gcctgctttc tacgaggctt tcgggctgac ggtggttgag gccatgacct 180  
 gcggcctgcc cacgttcgcc accgcctacg gcagtccggc cgagatcatc gtgcacggcg 240  
 tgtctggcta ccacatcgac tcttaccagg gcgacaaggc gtcggccctg ctctgt 295

<210> 616  
 <211> 288  
 <212> DNA  
 <213> Zea mays  
 <400> 616

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 gaagaagttt gaggatcact accacttctc gtgccagttc accactgact tgattgcaat 180  
 gaaccattgc cgacttcata atcaccagta ccttccaaga gatcgccgga aacaaggaca 240  
 ccgtcggcca gtacgagtca cacatggcgt tcacaatgcc tggcctgt 288

<210> 617  
 <211> 301  
 <212> DNA  
 <213> Zea mays  
 <400> 617

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 ttcgctcaag ctaatgtctt gggttaccct gacaccggag gccaggttgt ctacatcttg 180  
 gatcaagtgc gcgctatgga gaacgaaatg ctgctgagga tcaagcagtg tggctctgac 240  
 atcacgccga agatccttat tgtcaccagg ttgctccctg atgcaactgg caccacctgt 300  
 g 301

<210> 618  
 <211> 294  
 <212> DNA  
 <213> Zea mays

<220>



<210> 621  
 <211> 298  
 <212> DNA  
 <213> Zea mays

<400> 621

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 agaacacgga gccacaagtt cgttctgaac gacaggaaca agccaatcat cttctccatg 180  
 gctcgtctcg accgtgtgaa gaacttgact gggctggtgg agctgtacgg ccggaacaag 240  
 cggctgcagg agctggtgaa cctcgtggtc gtctgcggcg accatggcaa cccttcca 298

<210> 622  
 <211> 306  
 <212> DNA  
 <213> Zea mays

<220>  
 <221> unsure  
 <222> (1)..(306)  
 <223> unsure at all n locations

<400> 622

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 ctgtaccgct acatctgcga caccaagggc gccttcgtgc agcctgcttt ctacgaggct 120  
 ttcgggctga cggtggttga ggccatgacc tgcggcctgc ccacgttcgc caccgcctac 180  
 ggcgggtccg ccgagatcat cgtgcacggc gtgtctggt accacatcga cccttaccag 240  
 ggcgacaagg cgtcggccct gctcgtggac ttcttcgaca agtgccaggc ggagcgangc 300  
 cactgg 306

<210> 623  
 <211> 292  
 <212> DNA  
 <213> Zea mays

<400> 623

actcggagag gctgatgacc ctcaccggcg tgtacgggtt ctggaagtac gtgtccaacc 60  
 tggagaggcg cgagaccg cggtacctgg agatgctgta cgcgctcaag taccgcacca 120

tggcgagcac cgtgccgctg gccgtggagg gagagccctc cagcaagtga tgcgcgacgg 180  
 cggccacaga cctgatcgat cgatgagcga gaggagcac tcggagtgtc gtgtcttttc 240  
 ccttgccatt tctttctttt tttcccttcc cggaggcgaa aaaaagagtc tg 292

<210> 624  
 <211> 283  
 <212> DNA  
 <213> Zea mays

<400> 624

caggccaatc ctgacctgat catcggaac tacagtgacg gaaaccttgt tgcgtgtttg 60  
 ctgcgccaca agatgggtgt tactcactgt accattgccc atgcgcttga gaaaactaag 120  
 taccctaact ccgacctcta ctggaagaag tttgaggatc actaccactt ctcggtgccag 180  
 ttcaccactg acttgattgc aatgaaccat gccgacttca tcatcaccag taccttccaa 240  
 gagatcgccg gaaacaagga caccgtcggc cagtacgagt cac 283

<210> 625  
 <211> 289  
 <212> DNA  
 <213> Zea mays

<400> 625

ggcgaacctc gtgatcgctg ccggtgacca cggcaaggag tccaaggaca gggaggagca 60  
 ggcggagttc aagaagatgt acagcctcat cgacgagtac aagttgaagg gccatatccg 120  
 gtggatctcg gcgcagatga accgcgtccg caacggggag ctgtaccgct acatttgcca 180  
 taccaagggc gcattcgtgc agcctgcgtt ctacgaagcg ttcgggctga ctgtgatcga 240  
 gtccatgacg tgcggtctgc caacgatcgc gacctgccat ggtggccct 289

<210> 626  
 <211> 295  
 <212> DNA  
 <213> Zea mays

<400> 626

cccacgcgtc cgcttgatc aagtgcgcgc tatggagaac gaaatgctgc tgaggatcaa 60  
 gcagtgtggt cttgacatca cgccgaagat cttattgtc accaggttgc tccctgatgc 120

aactggcacc acctgtggcc agcgccttga gaaggctcctt ggcaccgagc actgccatat 180  
 ccttcgcgtg ccattcagaa cagaaaacgg aatcggtcgc aagtggatct cgcgatttga 240  
 agtctggccg tacctggaga cttacactga tgacgtggcg catgagattg ctgga 295

<210> 627  
 <211> 283  
 <212> DNA  
 <213> Zea mays

<400> 627

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 ggtccttggc accgagcact gccatatcct tcgcgtgcca ttcagaacag aaaacggaat 180  
 cgttcgcaag tggatctcgc gatttgaagt ctggccgtac ctggagactt aactgatga 240  
 cgtggcgcat gagattgctg gagagcttca ggccaatcct gac 283

<210> 628  
 <211> 299  
 <212> DNA  
 <213> Zea mays

<400> 628

cccacgcgtc cgtgagtgtt tactaccctt atacggaaac cgacaagaga ctcaactgcct 60  
 tccatcctga aatcgaggag ctcatctaca gcgacgtcga gaactccgag cacaagttcg 120  
 tgctgaagga caagaagaag ccgatcatct tctcgatggc gcgtctcgac cgcgtgaaga 180  
 acatgacagg cctggtcgag atgtacggca agaacgcgcg cctgagggag ctggcgaacc 240  
 tcgtgatcgt tgccggtgac cacggcaagg agtccaagga caggaggag caggcggag 299

<210> 629  
 <211> 286  
 <212> DNA  
 <213> Zea mays

<400> 629

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 ctggagagct tcaggccaat cctgacctga tcatcggaac ctacagtgcg ggaaaccttg 120

ttgcgtgttt gctcgccac aagatgggtg ttactcactg taccattgcc catgcgcttg 180  
 agaaaactaa gtaccctaac tccgacctct actggaagaa gtttgaggat cactaccact 240  
 tctcgtgccca gttcaccaca gacttgattg caatgaacca tgccga 286

<210> 630  
 <211> 293  
 <212> DNA  
 <213> Zea mays

<400> 630

caggaacttg gtctggagaa gggttgggtg gattgcgcta agcgtgcaca ggagactatc 60  
 cacctcctct tggacctcct ggaggcccca gatccgtcca ccctggagaa gttccttgga 120  
 acgatcccca tgggtgttcaa tgtcgttatc ctctcccctc atggttactt cgctcaagct 180  
 aatgtcttgg gttaccctga caccggaggc caggttgtct acatcttgga tcaagtgcgc 240  
 gctatggaga acgaaatgct gctgaggatc aagcagtgtg gtcttgacat cac 293

<210> 631  
 <211> 286  
 <212> DNA  
 <213> Zea mays

<400> 631

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 tgtcaccagg ttgctccctg atgcaactgg caccacctgt ggccagcgcc ttgagaaggt 120  
 ccttggcacc gagcactgcc atatccttcg cgtgccattc agaacagaaa acggaatcgt 180  
 tcgcaagtgg atctcgcgat ttgaagtctg gccgtacctg gagacttaca ctgatgacgt 240  
 ggcgcatgag attgctggag agcttcaggc caatcctgac ctgac 286

<210> 632  
 <211> 289  
 <212> DNA  
 <213> Zea mays

<400> 632

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cgggctgacg gtggttgagg ccatgacctg cggcctgccc acgtttgcca cagcctacgg 180  
 cgggtccggcc gagatcatcg tgcacggcgt gtctggctac cacatcgacc cttaccaggg 240  
 cgacaaggcg tcggccctgc tcgtggactt cttcgacaag tgccaggcg 289

<210> 633  
 <211> 308  
 <212> DNA  
 <213> Zea mays

<220>  
 <221> unsure  
 <222> (1)..(308)  
 <223> unsure at all n locations  
 <400> 633

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 aagtgcgcgc tatggagaac gaaatgctgc tgaggatcaa gcagtgtggt cttgacatca 120  
 cgccgaagat ccttattgtc accagggtgc tccctgatgc aactggcacc acctgtggcc 180  
 agcgccttga gaaggctcctt ggcaccgagc actgccatat ccttcgcgtg ccattcagaa 240  
 cagaaaacgg aatcgttcgc aagtggatct cgcgatttga agtctggccg tacctggaga 300  
 cttacact 308

<210> 634  
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 <212> DNA  
 <213> Zea mays  
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 catctgcgac accaagggcg ccttcgtgca gcctgctttc tacgaggctt tcgggctgac 180  
 ggtggttgag gccatgacct ggggcctgcc cacgttcgcc accgcctacg ggggtccggc 240  
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<210> 635  
 <211> 281  
 <212> DNA



<213> Zea mays

<400> 635

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tctacttccc gtacaccgag tcgcacaaga ggctgacctc cttcacceg gagattgagg 180  
agctcctgta cagccaaacc gagaacacgg agcacaagtt cgttctgaac gacaggaaca 240  
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<210> 636

<211> 282

<212> DNA

<213> Zea mays

<400> 636

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cttgacatca cgccgaagat ccttattgtc accaggttgc tcctgatgc aactggcacc 180  
acctgtggcc agcgccttga gaaggctcctt ggcaccgagc actgccatat ccttcgcgtg 240  
ccattcagaa cagaaaacgg aatcgttcgc aagtggatct cg 282

<210> 637

<211> 279

<212> DNA

<213> Zea mays

<400> 637

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cgtccaccct ggagaagttc cttggaacga tccccatgggt gttcaatgtc gttatcctct 180  
cccctcatgg ttacttcgct caagctaattg tcttgggtta ccctgacacc ggaggccagg 240  
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<210> 638

<211> 356

<212> DNA

<213> Zea mays  
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 <221> unsure  
 <222> (1)..(356)  
 <223> unsure at all n locations  
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 tctcggtttg gctgtacagg agtccctcaa tctccgggtg aaggagggtc agcctcttgt 180  
 gcgactcggt gtacgggaag tagatggaca ggtccgcgcc aggagacacg atgttgaact 240  
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 <212> DNA  
 <213> Zea mays  
 <400> 639  
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 ccaagttcaa catcgtgtct cctggcgcgg acctgtccat ctacttcccg tacaccgagt 240  
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 <211> 294  
 <212> DNA  
 <213> Zea mays  
 <400> 640  
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 caagatctcc cagggcgggc tccagcgtat cgaggagaag tacacctgga agctgtactc 180  
 ggagaggctg atgacctca ccggcgtgta cgggttctgg aagtacgtgt ccaacctgga 240

gaggcgcgag acccggcggt acctggagat gctgtacgcg ctcaagtacc gcac 294

<210> 641  
 <211> 311  
 <212> DNA  
 <213> Zea mays

<220>  
 <221> unsure  
 <222> (1)..(311)  
 <223> unsure at all n locations

<400> 641

cggacgcttg gtntcgacaa gtgccaggcg gagcgangcc actggagcaa gatctcccag 60  
 ggcgggctcc angcgtatcg aggagaagta cacctggaag ctgtactcgg agaggctgat 120  
 gaccctcacc ggcgtgtacg ggttctggaa gtacgtgtcc aacctggaga ggcgcgagac 180  
 ccggcggtac ctggagatgc tgtacgcgct caagtaccgc accatggcga gcaccgtgcc 240  
 gctggccgtg gagggagagc ccnccagcaa gtgatgcgtg acggcggcca cagacctgat 300  
 cgatcgatga g 311

<210> 642  
 <211> 282  
 <212> DNA  
 <213> Zea mays

<400> 642

agctcctgta cagccaaacc gagaacacgg agcacaagtt cgttctgaac gacaggaaca 60  
 agccaatcat cttctccatg gctcgtctcg accgtgtgaa gaacttgact gggctggtgg 120  
 agctgtacgg ccggaacaag cggctgcagg agctgggcaa cctcgtgggc gtctgcggcg 180  
 accatggcaa cccttccaag gacaaggagg agcaggccga gttcaagaag atgtttgacc 240  
 tcatcgagca gtacaacctg aacgggcaca tccgctggat ct 282

<210> 643  
 <211> 284  
 <212> DNA  
 <213> Zea mays

<400> 643

aaggacaccg tggggcagta cgagtccac atcgcggttca ctcttctgg gctctaccgt 60  
gtcgtccatg gcatcgatgt ttctgatccc aagttcaaca ttgtctcccc tggagcagac 120  
atgagtgttt actaccogta tacggaaacc gacaagagac tcaactgcctt ccatcctgaa 180  
atcgaggagc tcatctacag cgacgtcgag aactccgagc acaagtctgt gctgaaggac 240  
aagaagaagc cgatcatctt ctcgatggcg cgtctcgacc gcgt 284

<210> 644  
<211> 276  
<212> DNA  
<213> Zea mays

<400> 644

gttcaacatc gtgtctcttg gcgcggacct gtccatctac ttcccgtaca ccgagtcgca 60  
caagaggctg acctcccttc acccgagat tgaggagctc ctgtacagcc aaaccgagaa 120  
cacggagcac aagttcgttc tgaacgacag gaacaagcca atcatcttct ccatggctcg 180  
tctcgaccgt gtgaagaact tgactgggct ggtggagctg tacggccgga acaagcggct 240  
gcaggagctg gtgaacctcg tggtcgtctg cggcga 276

<210> 645  
<211> 282  
<212> DNA  
<213> Zea mays

<400> 645

cccttggaac gatcccatg gtgttcaatg tcgttatcct ctcccctcat gggtacttcg 60  
cacaagctaa tgtcttgggt taccctgaca ccggaggcca ggttgtctac atcttggatc 120  
aagtgcgcgc tatggagaac gaaatgctgc tgaggatcaa gcagtgtgggt cttgacatca 180  
cgccgaagat ccttattgtc accaggttgc tcctgatgc aactggcacc acctgtggcc 240  
agcgccttga gaaggtcctt ggcaccgagc actgccatat cc 282

<210> 646  
<211> 286  
<212> DNA  
<213> Zea mays

<400> 646

gttgaggcca tgacctgcgg cctgcccacg tttgccacag cctacggcgg tccggccgag 60  
atcatcgtgc acggcgtgtc tggctaccac atcgaccctt accagggcga caaggcgtcg 120  
gccctgctcg tggacttctt cgacaagtgc caggcggacc cgagccactg gagcaagatc 180  
tcccagggcg ggctccagcg tatcgaggag aagtacacct ggaagctcta ctcggagagg 240  
ctgatgaccc tcaccggcgt gtacgggttc tggaagtacg tgtcca 286

<210> 647  
<211> 280  
<212> DNA  
<213> Zea mays

<400> 647

gtaccctaac tccgacctct actggaagaa gtttgaggat cactaccact tctcgtgcca 60  
gttcaccact gacttgattg caatgaacca tgccgacttc atcatcacca gtaccttcca 120  
agagatcgcc ggaacaagg acaccgtcgg ccagtacgag tcacacatgg cgttcacaat 180  
gcctggcctg taccgcgttg tccacggcat tgatgtgttc gacccaagt tcaacatcgt 240  
gtctcctggc gcggacctgt ccactactt cccgtacacc 280

<210> 648  
<211> 286  
<212> DNA  
<213> Zea mays

<400> 648

cgatcatcgt gcacggcgtg tctggctacc acatcgaccc ttaccagggc gacaaggcgt 60  
cggccctgct cgtggacttc ttcgacaagt gccaggcgga ccgagccact ggagcaagat 120  
ctcccagggc gggctccagc gtatcgagga gaagtacacc tggaagctgt actcggagag 180  
gctgatgacc ctcaccggcg tgtacgggtt ctggaagtac gtgtccaacc tggagaggcg 240  
cgagaccccg cggtagctgg agatgctgta cgcgtcaag taccgc 286

<210> 649  
<211> 331  
<212> DNA  
<213> Zea mays

<220>  
<221> unsure

<222> (1)..(331)  
 <223> unsure at all n locations

<400> 649

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tgccagcgta tcgaggagaa gtacacctgg aagctgtact cggagaggct gatgaccctc 120
accggcgtgt acgggttctg gaagtacgtg tccaacctgg agaggcgcca gaccggcgcg 180
tacctggaga tgctgtacgc gctcaagtac cgcaccatgg cgagcacctg gccgctggcc 240
gtggagggag agccctccag caagtgatgc gtgacggcgg cnacagacct gatcgatcga 300
tgagcgagat ggagcactcg gagtgtcgtg t 331
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<210> 650  
 <211> 288  
 <212> DNA  
 <213> Zea mays

<400> 650

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gtttgacctc atcgagcagt acaacctgaa cgggcacatc cgctggatct ccgcccagat 60
gaaccgcgtc cgcaacggcg agctgtaccg ctacatctgc gacaccaagg gcgccttcgt 120
gcagcctgct ttctacgagg ctttcgggct gacggtggtt gaggccatga cctgcggcct 180
gccacgttc gccaccgcct acggcgctacc ggccgagatc atcgtgcacg gcgtgtctgg 240
ctaccacatc gacccttacc agggcgacaa ggcgctggcc ctgctcgt 288
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<210> 651  
 <211> 304  
 <212> DNA  
 <213> Zea mays

<400> 651

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gggttctgga agtacgtgtc caacctggag aggcgcgaga cccggcggta cctggagatg 60
ctgtacgcgc tcaagtaccg caccatggcg agcaccgtgc cgctggccgt ggagggagag 120
ccctccagca agtgatgcgc gacggcggcc acagacctga tcgatcgatg agcgagaggg 180
agcactcgga gtgtcgtgtc ttttcccttg ccatttcttt ctttttttcc cttcccggag 240
gcgaaaaaaaa gagtctgctt ttgctaggcg gcgggcgttc gttgctgctc attgcttcaa 300
gagt 304
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<210> 652  
 <211> 285  
 <212> DNA  
 <213> Zea mays  
 <400> 652  
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 tccgcaagtg gatctctcgt tttgatgtct ggccatacct ggagacatac actgaggatg 120  
 tttccagtga aataatgaaa gaaatgcagg ccaagcctga ccttatcatt ggcaactaca 180  
 gcgatggcaa cctagtcgcc actctgctcg cgcacaagtt gggagtcact cagtgtacca 240  
 tcgctcatgc cttggagaaa accaaatacc ccaactcgga catat 285

<210> 653  
 <211> 289  
 <212> DNA  
 <213> Zea mays  
 <400> 653  
 gcacctgtcc accctacaag ctgatacccc atactctgaa tttcaccaca ggttccagga 60  
 acttgggtctg gagaaggggtt ggggtgattg cgctaagcgt gcacaggaga ctatccacct 120  
 cctcttggac ctcttgagg cccagatcc gtccaccctg gagaagttcc ttggaacgat 180  
 ccccatggtg ttcaatgtcg ttatcctctc ccctcatggt tacttcgctc aagctaattg 240  
 cttgggttac cctgacaccg gaagccaggt tgtctacatc ttggatcaa 289

<210> 654  
 <211> 275  
 <212> DNA  
 <213> Zea mays  
 <400> 654  
 cccttccaag gacaaggagg agcaggccga gttcaagaag atgtttgacc tcatcgagca 60  
 gtacaacctg aacgggcaca tccgctggat ctccgcccag atgaaccgcg tccgcaacgg 120  
 cgagctgtac cgctacatct gcgacaccaa gggcgcttc gtgcagcctg ctttctacga 180  
 ggctttcggg ctgacggtgg ttgaggccat gacctgcggc ctgcccacgt tcgccaccgc 240  
 ctacggcggg ccggccgaga tcatcgtgca cggcg 275

<210> 655  
 <211> 278  
 <212> DNA  
 <213> Zea mays

<400> 655

gttccttgga acgatcccca tgggtgttcaa tgtcggttata ctctcccctc atgggttactt 60  
 cgctcaagct aatgtcttgg gttaccctga caccggaggc cagggtgtct acatcttgga 120  
 tcaagtgcgc gctatggaga acgaaatgct gctgaggatc aagcagtgtg gtcttgacat 180  
 cacgcgaag atccttattg tcaccagggtt gctccctgat gcaactggca ccacctgtgg 240  
 ccagcgcctt gagaagctcc ttggcaccga gcactgcc 278

<210> 656  
 <211> 296  
 <212> DNA  
 <213> Zea mays

<400> 656

gaaaactaag taccctaact ccgacctcta ctggaagaag tttgaggatc actaccactt 60  
 ctctgtgccag ttcaccactg acttgattgc aatgaaccat gccgacttca tcatcaccag 120  
 taccttccaa gagatcgccg gaaacaagga caccgtcggc cagtacgagt cacacatggc 180  
 gttcacaatg cctggcctgt accgcgttgt ccacggcatt gatgtgttcg accccaagtt 240  
 caacatcgtg tctcctggcg cggacctgtc catctacttc ccgtacaccg agtcgc 296

<210> 657  
 <211> 278  
 <212> DNA  
 <213> Zea mays

<400> 657

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 acggagcaca agttcgttct gaacgacagg aacaagccaa tcatcttctc catggctcgt 120  
 ctcgaccgtg tgaagaactt gactgggctg gtggagctgt acggccggaa caagcggctg 180  
 caggagctgg tgaacctcgt ggtcgtctgc ggcgaccatg gcaacccttc caaggacaag 240  
 gaggagcagg ccgagttcaa gaagatgttt gacctcat 278



<210> 658  
 <211> 306  
 <212> DNA  
 <213> Zea mays

<220>  
 <221> unsure  
 <222> (1)..(306)  
 <223> unsure at all n locations

<400> 658

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 caatgtcggtt atcctctccc ctcatgggtta cttegtctcaa gctaattgtct tggggttacct 120  
 tgacaccgga ggccagggttg tctacatctt ggatcaagtg cgcgctatgg agaacgaaat 180  
 gctgctgagg atcaagcagt gtggtcttga catcacgccg aagatcctta ttgtcaccag 240  
 gttgcncctt gatgcaagtg gcaccacctg tggccagcgc tttgagaggg tcttggtccc 300  
 gaacat 306

<210> 659  
 <211> 306  
 <212> DNA  
 <213> Zea mays

<400> 659

ctcggagagg ctgatgacct tcaccggcgt gtacgggttc tggaagtacg tgtccaacct 60  
 ggagaggcgc gagaccggc ggtacctgga gatgctgtac gcgctcaagt accgcaccat 120  
 ggcgagcacc gtgccgctgg ccgtggaggg agagccctcc agcaagtgat gcgcgacggc 180  
 ggccacagac ctgatcgatc gatgagcgag agggagcact cggagtgtcg tgtcttttcc 240  
 cttgccattt ctttcttttt ttcccttccc ggaggcgaaa aaaagagtct gcttttgcta 300  
 ggcggc 306

<210> 660  
 <211> 287  
 <212> DNA  
 <213> Zea mays

<400> 660

cggaccgtgg gcgtggcgca tgagattgct ggagagcttc aggccaatcc tgacctgac 60  
 atcggaaact acagtgcgg aaaccttggt gcgtgtttgc tcgcccacaa gatgggtggt 120  
 actcactgta ccattgccc tgcgcttgag aaaactaagt accctaactc cgacctctac 180  
 tggaagaagt ttgaggatca ctaccacttc tcgtgccagt tcaccactga cttgattgca 240  
 atgaaccatg ccgacttcat catcaccagt accttccaag agatcgc 287

<210> 661  
 <211> 276  
 <212> DNA  
 <213> Zea mays

<400> 661

aagagatcgc cggaaacaag gacaccgtcg gccagtacga gtcacacatg gcgttcacaa 60  
 tgccctggcct gtaccgcgtt gtccacggca ttgatgtggt cgacccaag ttcaacatcg 120  
 tgtctcctgg cgcggacctg tccatctact tcccgtagac cgagtcgcac aagaggctga 180  
 cctcccttca cccggagatt gaggagctcc tgtacagcca aaccgagaac acggagcaca 240  
 agttcgttct gaacgacagg aacaagccaa tcatct 276

<210> 662  
 <211> 276  
 <212> DNA  
 <213> Zea mays

<400> 662

ggcgtcggcc ctgctcgtgg acttcttcga caagtgccag gcggaccga gccactggag 60  
 caagatctcc cagggcgggc tccagcgtat cgaggagaag tacacctgga agctctactc 120  
 ggagaggctg atgacctca ccggcgtgta cgggttcttg aagtacgtgt ccaacctgga 180  
 gaggcgcgag acccggcggt acctggagat gctgtacgcg ctcaagtacc gcaccatggc 240  
 gagcaccgtg ccgctggccg tggagggaga gcctcc 276

<210> 663  
 <211> 274  
 <212> DNA  
 <213> Zea mays

<400> 663

gaatttcacc acaggttcca ggaacttggc ctggagaagg gttgggggtga ttgcgctaag 60  
 cgtgcacagg agactatcca cctcctcttg gacctcctgg aggccccaga tccgtccacc 120  
 ctggagaagt tccttggaac gatcccatg gtgttcaatg tcgttatcct ctcccctcat 180  
 ggttacttcg ctcaagctaa tgtcttgggt taccctgaca ccggaggcca ggttgtctac 240  
 atcttggatc aagtgcgcgc tatggagaac gaaa 274

<210> 664  
 <211> 308  
 <212> DNA  
 <213> Zea mays

<400> 664

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 cgagtcacac atggcggttca caatgcctgg cctgtaccgc gttgtccacg gcattgatgt 120  
 gttcgacccc aagttcaaca tcgtgtctcc tggcgcggaac ctgtccatct acttcccgtta 180  
 caccgagtcg cacaagaggc tgacctcct tcacccggag attgaggagc tcctgtacag 240  
 ccaaaccgag aacacggagc acaagttcgt tctgaacgac aggaacaagc caatcatctt 300  
 ctccatgg 308

<210> 665  
 <211> 279  
 <212> DNA  
 <213> Zea mays

<400> 665

tgcccatgcg cttgagaaaa ctaagtaccc taactccgac ctctactgga agaagtttga 60  
 ggatcactac cacttctcgt gccagttcac cacagacttg attgcaatga accatgccga 120  
 cttcatcatc accagtacct tccaagagat cgccggaaac aaggacaccg tcggccagta 180  
 cgagtcacac atggcggttca caatgcctgg cctgtaccgc gtcgtccacg gcattgatgt 240  
 gttcgacccc aagttcaaca tcgtgtctcc tggcgcgga 279

<210> 666  
 <211> 277  
 <212> DNA  
 <213> Zea mays

<400> 666

atccccatgg tgttcaatgt cgttatectc tcccctcatg gttacttcgc tcaagctaata 60

gtcttggggtt accctgacac cggaggccag gttgtctaca tcttggatca agtgcgcgct 120

atggagaacg aaatgctgct gaggatcaag cagtgtggtc ttgacatcac gccgaagatc 180

cttattgtca ccaggttgct cctgatgca actggcacca cctgtggcca gcgccttgag 240

aaggtccttg gcaccgagca ctgccatata cttcgcg 277

<210> 667

<211> 284

<212> DNA

<213> Zea mays

<400> 667

cctgggctct accgtgtcgt ccatggcatc gatgttttcg atcccaagtt caacattgtc 60

tcccctggag cagacatgag tgtttactac ccgtatacgg aaaccgacaa gagactcact 120

gccttccatc ctgaaatcga ggagctcatc tacagcgacg tcgagaactc cgagcacaag 180

ttcgtgctga aggacaagaa gaagccgac atcttctcga tggcgcgtct cgaccgcgtg 240

aagaacatga caggcctggg cgagatgtac ggcaagaacg cgcg 284

<210> 668

<211> 286

<212> DNA

<213> Zea mays

<400> 668

ctgaaatcga ggagctcatc tacagcgacg tcgagaactc cgagcacaag ttcgtgctga 60

acgacaagaa gaagccgac atcttctcga tggcgcgtct cgaccgcgtg aagaacatga 120

caggcctggg cgagatgtac ggcaagaacg cgcgccctgac ggagctggcg aacctcgtga 180

tcgttgccgg tgaccacggc aaggagtcca aggacaggga ggagcaggcg gaggttcaaga 240

agatgtacag cctcatcgac gaggtagagt tgaagggcca tatccg 286

<210> 669

<211> 271

<212> DNA

<213> Zea mays

<400> 669

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agctcctgta cagccaaacc gagaacacgg agcacaagtt cgttctgaac gacaggaaca 120

agccaatcat cttctccatg gctcgtctcg accgtgtgaa gaacttgact gggctggtgg 180

agctgtacgg ccggaacaag cggctgcagg agctggtgaa cctcgtggtc gtctgcggcg 240

accatggcaa cccttccaag gacaaggagg a 271

<210> 670

<211> 273

<212> DNA

<213> Zea mays

<400> 670

cccgtaacac gagtcgcaca agaggctgac ctcccttcac ccggagattg aggagctcct 60

gtacagccaa accgagaaca cggagcaciaa gttcgttctg aacgacagga acaagccaat 120

catctttctcc atggctcgtc tcgacctgtg gaagaacttg actgggctgg tggagctgta 180

cggccggaac aagcggctgc aggagctggt gaacctcgtg gtcgtctgcg gcgacctagg 240

caacccttcc agggacaagg aggagcaggc cga 273

<210> 671

<211> 270

<212> DNA

<213> Zea mays

<400> 671

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atgtacggca agaacgcgcg cctgagggag ctggcgaacc tcgtgatcgt tgccggtgac 180

cacggcaagg agtccaagga cagggaggag caggcggagt tcaagaagat gtacagcctc 240

atcgacgagt acaagttgaa gggccatatc 270

<210> 672

<211> 271

<212> DNA

<213> Zea mays

<400> 672

agattgagga gctcctgtac agccaaaccg agaacacgga gcacaagttc gttctgaacg 60

acaggaacaa gccaatcatc ttctccatgg ctctgtctga ccgtgtgaag aacttgactg 120

ggctggtgga gctgtacggc cggaacaagc ggctgcagga gctggtgaac ctctgtggtcg 180

tctgcggcga ccatggcaac ccttccaagg acaaggagga gcaggccgag ttcaagaaga 240

tgtttgacct catcgagcag tacaacctga a 271

<210> 673

<211> 274

<212> DNA

<213> Zea mays

<400> 673

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gaccatggca acccttccaa ggacaaggag gagcaggccg agttcaagaa gatgtttgac 120

ctcatcgagc agtacaacct gaacggggcac atccgctgga tctccgcca gatgaaccgc 180

gtccgcaacg gcgagctgta ccgctacatc tgcgacacca agggcgcctt cgtgcagcct 240

gctttctacg aggctttcgg gctgacggtg gttg 274

<210> 674

<211> 269

<212> DNA

<213> Zea mays

<400> 674

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agttcgtttc gaacgacagg aacaagccaa tcattttctc catggctcgt ctcgaccgtg 120

tgaagaactt gactgggctg gtggagctgt acggccggaa caagcggctg caggagctgg 180

tgaacctcgt ggctgtctgc ggcgaccatg gcaacccttc caaggacaag gaggagcagg 240

ccgattcaa gaagatgttt gacctcatc 269

<210> 675

<211> 273

<212> DNA

<213> Zea mays

<400> 675

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attcagaaca gaaaacggaa tcgttcgcaa gtggatctcg cgatttgaag tctggccgta 120  
cctggagact tacactgatg acgtggcgca tgagattgct ggagagcttc aggccaatcc 180  
tgacctgatc atcggaaact acagtgacgg aaaccttggt gcgtgtttgc tcgcccacaa 240  
gatgggtggt actcactgta ccattgccca tgc 273

<210> 676

<211> 285

<212> DNA

<213> Zea mays

<400> 676

ccaagggcgc cttcgtgcag cctgctttct acgaggcttt cgggctgacg gtggttgacg 60  
ccatgacctg cggcctgccc acgttcgcca ccgcctacgg cggtcgggcc gagatcatcg 120  
tgcaaggcgt gtctggctac cacatcgacc cttaccaggg cgacaaggcg tcggccctgc 180  
tcgtggactt cttcgacaag tgccaggcgg accgagccac tggagcaaga tctcccaggg 240  
cgggctccag cgtatcgagg agaagtacac ctggaagctg tactc 285

<210> 677

<211> 281

<212> DNA

<213> Zea mays

<400> 677

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cgcaacggcg agctgtaccg ctacatctgc gacaccaagg gcgccttcgt gcagcctgct 120  
ttctacgagg ctttcgggct gacggtggtt gaggccatga cctgcggcct gccacgttc 180  
gccaccgct acggcggctc ggccgagatc atcgtgcacg gcgtgtctgg ctaccacatc 240  
gacccttacc agggcgacaa ggcgtcggcc ctgctcgtgg a 281

<210> 678

<211> 297

<212> DNA

<213> Zea mays

<400> 678

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tccatcctga aatcgaggag ctcatcaaca gcgacgtcga gaactccgag cacaagttcg 120  
tgctgaagga caagaagaag ccgatcatct tctcgatggc gcgtctcgac cgcgtgaaga 180  
acatgacagg cctggtggag atgtacggca agaacgcgcg cctgagggag ctggcgaacc 240  
tcgtgatcgt cgccggtgac cacggcaaga gtccaaggac agggaggagc aggcgga 297

<210> 679

<211> 273

<212> DNA

<213> Zea mays

<400> 679

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gctcgtggac ttcttcgaca agtgccaggc ggacccgagc cactggagca agatctccca 120  
gggcgggctc cagcgtatcg aggagaagta cacctggaag ctctactcgg agaggctgat 180  
gaccctcacc ggcgtgtacg ggttctggaa gtacgtgtcc aacctggaga ggcgcgagac 240  
ccggcggtac ctggagatgc tgtacgcgct caa 273

<210> 680

<211> 279

<212> DNA

<213> Zea mays

<400> 680

gtttgaggat cactaccact tctcgtgccg gttcaccact gacttgattg caatgaacca 60  
tgccgacttc atcatcacca gtaccttcca agagatcgcc ggaaacaagg acaccgtcgg 120  
ccagtacgag tcacacatgg cgttcacaat gcctggcctg taccgcgttg tccacggcat 180  
tgatgtgttc gacccaagt tcaacatcgt gtctcctggc gcggacctgt ccatctactt 240  
cccgtacacc gagtcgcaca agaggctgac ctcccttca 279

<210> 681

<211> 283

<212> DNA

<213> Zea mays



<400> 681

cgcgttcact cttcctgggc tctaccgtgt cgtccatggc atcgatgttt tcgatcccaa 60

gttcaacatt gtctcccctg gagcagacat gagtgtttac taccgtata cggaaccga 120

caagagactc actgccttcc atcctgaaat cgaggagctc atcaacagcg acgtcgagaa 180

ctccgagcac aagttcgtgc tgaaggacaa gaagaagccg atcatcttct cgatggcgcg 240

tctcgaccgc gtgaagaaca tgacaggcct ggtggagatg tac 283

<210> 682

<211> 302

<212> DNA

<213> Zea mays

<400> 682

taccgagatc atcgtgcacg gcgtgtctgg ctaccacatc gacccttacc agggcgacaa 60

ggcgtcggcc ctgctcgtgg agttcttcga caagtgccag gcggaccga gccactggag 120

caagatctcc cagggcgggc tccagcgtat cgaggagaag tacacctgga agctctactc 180

ggagaggctg atgaccctca ccggcgtgta cgggttctgg aagtacgtgt ccaacctgga 240

gaagcgcgat acccggcggg acctggagga gctgtacgcg ctcaagtacc gcaccatggc 300

ga 302

<210> 683

<211> 300

<212> DNA

<213> Zea mays

<400> 683

agaagatgtt tgacctcatc gagcagtaca acctgaacgg gcacatccgc tggatctccg 60

cccagatgaa ccgcgtccgc aacggcgagc tgtaccgcta catctgcgac accaagggcg 120

ccttcgtgca gcctgctttc tacgaggctt tcgggctgac ggtgggtgag gccatgacct 180

gcggcctgcc cacgttcgcc accgcctacg gcgggtccggc cgagatcatc gtgcacggcg 240

tgtctggcct acacatcgga ccttaccag gcgacaaagc gtcggcactg ctcgtggact 300

<210> 684

<211> 264

<212> DNA

<213> Zea mays

<400> 684

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ctggatctcc gccagatga accgcgtccg caacggcgag ctgtaccgct acatctgcga 120  
caccaagggc gccttcgtgc agcctgcttt ctacgaggct ttcgggctga cggtggttga 180  
ggccatgacc tgcggcctgc ccacgtttgc cacagcctac ggcggtcgga ccgagatcat 240  
cgtgcacggc gtgtctggct acca 264

<210> 685

<211> 325

<212> DNA

<213> Zea mays

<400> 685

gtcggaacaa gcggtgcag gagctggtga cctcgtgggc gtctgcggcg accatggcaa 60  
cccttccaag gacaaggatg atcaggccga gttcaagaag atgtttgacc tcatcgagca 120  
gtacaacctg aacgggtaca tccgctggat ctccgcccag atgaaccgag tccgcaacgg 180  
cgagctgtac cgctacatct gcgacaccat aggcgccctc gtgcagcctg ctttctacga 240  
ggctttcggg ctgacgggtg ttgaagctat gacctgcggc ctgcccagat tccccaccgc 300  
ctagagggtc cggccagatc atcgt 325

<210> 686

<211> 291

<212> DNA

<213> Zea mays

<400> 686

ggacctggga agtacacctg gaagctgtac tcggagaggc tgatgaccct caccggcgtg 60  
tacgggttct ggaagtacgt gtccaacctg gagaggcgag agaccggcg gtacctggag 120  
atgctgtacg cgctcaagta ccgcaccatg gcgagcaccg tgccgctggc cgtggaggga 180  
gagccctcca gcaagtgatg cgtgacggcg gccacagacc tgatcgatcg atgagcgaga 240  
gggagcactc ggagtgtcgt gtcttttccc ttgccatttc tttctttctt c 291

<210> 687

<211> 279  
 <212> DNA  
 <213> Zea mays

<400> 687

gcgttggtcca cggcattgat gtgttcgacc ccaagttcaa catcgtgtct cctggcgcg 60  
 acctgtccat ctacttcccg tacaccgagt cgcacaagag gctgacctcc cttcaccgg 120  
 agattgagga gtcctgtac agccaaaccg agaacacgga gcacaagttc gttctgaacg 180  
 acaggaacaa gccaatcatc ttctccatgg ctcgctctga cctgtgtgaag aacttgactg 240  
 ggctggtgga gctgtacggc cggaacaagc ggctgcagg 279

<210> 688  
 <211> 270  
 <212> DNA  
 <213> Zea mays

<220>  
 <221> unsure  
 <222> (1)..(270)  
 <223> unsure at all n locations

<400> 688

gccctgctcg tggacttctt cgacaagtgc caggcggagc gagccactgg agcaagatct 60  
 cccagggcgg gctccagcgt atcgaggaga agtacacctg gaagctgtac tcggagagggc 120  
 tgatgacct caccggcggtg tacgggttct ggaagtacgt gtccaacctg gagaggcgcg 180  
 agaccggcg gtacctggag atgctgtacg cgctcaagta ccgcaccatg gcgagcaccg 240  
 tgccgctggc cgtggnagga gagccctcag 270

<210> 689  
 <211> 274  
 <212> DNA  
 <213> Zea mays

<400> 689

ggctgacggt ggttgaggcc atgacctgcg gcctgcccac gtttgccaca gcctacggcg 60  
 gtccggccga gatcatcgtg caccggcgtg ctggctacca catcgacct taccagggcg 120  
 acaaggcgtc ggccctgctc gtggacttct tcgacaagtg ccaggcggac ccgagccact 180  
 ggagcaagat ctcccagggc gggctccagc gtatcgagga gaagtacacc tggaagctct 240

actcggagag gctgatgaac ctcaccggcg tgta 274

<210> 690  
 <211> 267  
 <212> DNA  
 <213> Zea mays

<400> 690

cggagcaciaa gttcgttctg aacgacagga acaagccaat catcttctcc atggctcgtc 60  
 tcgaccgtgt gaagaacttg actgggctgg tggagctgta cggccggaac aagcggctgc 120  
 aggagctggt gaacctcgtg gtcgtctgcg gcgaccatgg caacccttcc aaggacaagg 180  
 aggagcagggc cgagttcaag aagatgtttg acctcatcga gcagtacaac ctgaacgggc 240  
 acatccgctg gatctccgcc cagatga 267

<210> 691  
 <211> 268  
 <212> DNA  
 <213> Zea mays

<400> 691

gccaaaccga gaacacggag cacaagttcg ttctgaacga caggaacaag ccaatcatct 60  
 tctccatggc tcgtctcgac cgtgtgaaga acttgactgg gctgggtggag ctgtacggcc 120  
 ggaacaagcg gctgcaggag ctggtgaacc tcgtggctcg ctgcggcgac catggcaacc 180  
 cttccaagga caaggaggag caggccgagt tcaagaagat gtttgacctc atcgagcagt 240  
 acaacctgaa cgggcacatc cgttggat 268

<210> 692  
 <211> 273  
 <212> DNA  
 <213> Zea mays

<400> 692

cgagaacacg gagcacaagt tcgttctgaa cgacaggaag gggccaatca tcttctccat 60  
 ggctcgtctc gaccgtgtga agaacttgac tgggctggtg gagctgtacg gccggaacia 120  
 gcggctgcag gagctggtga acctcgtggt cgtctgcggc gaccatggca acccttccaa 180  
 ggacaaggag gagcaggccg agttcaagaa gatgtttgac ctcatcgagc agtacaacct 240

gaacgggcac atccgctgga tctccgccca gat

273

<210> 693  
<211> 268  
<212> DNA  
<213> Zea mays

<400> 693

gagctggtga acctcgtggt cgtctgcggc gaccatggca acccttccaa ggacaaggag 60  
gagcaggccg agttcaagaa gatgtttgac ctcatcgagc agtacaacct gaacgggcac 120  
atccgctgga tctccgccca gatgaadcgc gtccgcaacg gcgagctgta ccgctacatc 180  
tgcgacacca agggcgccct cgtgcagcct gctttctacg aggctttcgg gctgacggtg 240  
gttgaggcca tgacctgcgg cctgccca 268

<210> 694  
<211> 280  
<212> DNA  
<213> Zea mays

<400> 694

cccacgcgtc cgggagctgg tgaacctcgt ggctcgtctgc ggcgaccatg gcaacccttc 60  
caaggacaag gaggagcagg ccgagttcaa gaagatgttt gacctcatcg agcagtacaa 120  
cctgaacggg cacatccgct ggatctccgc ccagatgaac cgcgtccgca acggcgagct 180  
gtaccgctac atctgcgaca ccaagggcgc ctctcgtgcag cctgctttct acgaggcttt 240  
cgggctgacg gtggttgagg ccatgacctg cggcctgccc 280

<210> 695  
<211> 270  
<212> DNA  
<213> Zea mays

<400> 695

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ctacatctgc gacaccaagg gcgccttcgt gcagcctgct ttctacgagg ctttcgggct 120  
gacggtgggt gaggccatga cctgcggcct gccacgttt gccacagcct acggcggtcc 180  
ggccgagatc atcgtgcacg gcgtgtctgg ctaccacatc gacccttacc agggcgacaa 240

ggcgtcggcc ctgctcgtgg acttcttcga

270

<210> 696

<211> 282

<212> DNA

<213> Zea mays

<400> 696

cggaccgtgg gctactggaa gaagtttgag gatcactacc acttctcgtg ccagttcacc 60

actgacttga ttgcaatgaa ccatgccgac ttcacatca ccagtacctt ccaagagatc 120

gccggaaaca aggacaccgt cggccagtac gagtcacaca tggcgttcac aatgcctggc 180

ctgtaccgcg ttgtccacgg cattgatgtg ttcgacccca agttcaacat cgtgtctcct 240

ggcgcggacc tgtccatcta cttcccgtag accgagtcgc ac 282

<210> 697

<211> 285

<212> DNA

<213> Zea mays

<400> 697

ccttcgtgcg tccttctctg tcaaagtcca ttggcaatgg cgtgcagttc ctcaacaggc 60

acctgtcatc aaagctcttc catgacaagg agagcatgta ccccttgctc aacttccttc 120

gcgcccacaa ctacaagggg atgaccatga tgttgaacga cagaatccgc agtctcagtg 180

ctctgcaagg tgcgctgagg aaggctgagg agcacctgtc caccctacaa gctgataccc 240

catactctga atttcaccac aggttccagg aacttgggtc ggaga 285

<210> 698

<211> 264

<212> DNA

<213> Zea mays

<400> 698

gttcgcaagt ggatctcgcg atttgaagtc tggccgtacc tggagactta cactgatgac 60

gtggcgcag agattgctgg agagcttcag gccaatcctg acctgatcat cggaaactac 120

agtgacggaa accttggtgc gtgtttgctc gccacaaga tgggtgttac tcaactgtacc 180

attgcccag cgcttgagaa aactaagtag cctaactccg acctctactg gaagaagttt 240

gaggatcact accacttctc gtgc 264

<210> 699  
 <211> 264  
 <212> DNA  
 <213> Zea mays

<400> 699

gagaaaacta agtaccctaa ctccgacctc tactggaaga agtttgagga tcactaccac 60  
 ttctcgtgcc agttcaccac tgacttgatt gcaatgaacc atgccgactt catcatcacc 120  
 agtaccttcc aagagatcgc cggaaacaag gacaccgtcg gccagtacga gtcacacatg 180  
 gcgttcacaa tgccctggcct gtaccgcgtt gtccacggca ttgatgtgtt cgaccccaag 240  
 ttcaacatcg tgtctcctgg cgcg 264

<210> 700  
 <211> 264  
 <212> DNA  
 <213> Zea mays

<400> 700

ggactttgag ccattcaatg cctccttccc ccgtccttct ctgtcaaagt ccattggcaa 60  
 tggcgtgcag ttctcaaca ggcacctgtc atcaaagctc ttccatgaca aggagagcat 120  
 gtaccccttg ctcaacttcc ttgcgcacca caactacaag gggatgacca tgatgttgaa 180  
 cgacagaatc cgcagtctca gtgctctgca aggtgcgctg aggaaggctg aggagcacct 240  
 gtccacccta caagctgata cccc 264

<210> 701  
 <211> 288  
 <212> DNA  
 <213> Zea mays

<400> 701

cccacgcgtc cgcggaccgt gggatggtgt tcaatgtcgt tatcctctcc cctcatgggt 60  
 acttcgctca agctaattgtc ttgggttacc ctgacaccgg atgccagggt gtatacatct 120  
 tggatcaagt gcgcgctatg gagaacgaaa tgctgctgag gatcaagcag tgtggtcttg 180  
 acatcacgcc gaagatcctt attgtcacca ggttgctccc tgatgcaact ggcaccacct 240

gtggccagcg ccttgagaag gtccttggca ccgagcactg ccatatcc 288

<210> 702  
<211> 268  
<212> DNA  
<213> Zea mays

<400> 702

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gcgtgtacgg gttctggaag tacgtgtcca acctggagag gcgcgagacc cggcgggtacc 120  
tgagatgct gtacgcgtc aagtaccgca ccatggcgag caccgtgccg ctggccgtgg 180  
agggagagcc ctccagcaag tgatgcgcga cggcggccac agacctgac gatcgatgag 240  
cgagagggag cactcggagt gtcgtgtc 268

<210> 703  
<211> 265  
<212> DNA  
<213> Zea mays

<400> 703

gagaaaacta agtaccctaa ctccgacctc tactggaaga agtttgagga tcactaccac 60  
ttctcgtgcc agttcaccac tgacttgatt gcaatgaacc atgccgactt catcatcacc 120  
agtaccttcc aagagatcgc cggaaacaag gacaccgtcg gccagtacga gtcacacatg 180  
gcgttcacaa tgcttggcct gtaccgcgtt gtccaaggca ttgatgtgtt cgaccccaag 240  
ttcaacatcg tgtctcctgg cgcgg 265

<210> 704  
<211> 228  
<212> DNA  
<213> Zea mays

<400> 704

gttcaacatc gtgtctctg gcgcggacct gtccatctac ttcccgtaca ccgagtcgca 60  
caagaggctg acctcccttc acccggagat tgaggagctc ctgtacagcc aaaccgagaa 120  
cacggagcac aagttcgttc tgaacgacag gaacaagcca atcatcttct ccatggctcg 180  
tctcgaccgt gtgaagaact tgactgggct ggtggagttg tacggccg 228



<210> 705  
 <211> 297  
 <212> DNA  
 <213> Zea mays

<400> 705

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 gctcctgtac agccaaaccg agaacacgga gcacaagttc gatctgaacg acagcgaaca 120  
 agccaatcat cttctccatg gctcgtctcg accgtgtgaa gaacttgact gggctgggtg 180  
 agctgtacgg ccggaacaag cggctgcagg agctgggtgaa cctcgtgggc gtctgcggcg 240  
 accatggcaa cccttccaag gacaaggagg agcaggccga gttcaagaag atgtttg 297

<210> 706  
 <211> 286  
 <212> DNA  
 <213> Zea mays

<400> 706

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 aaggcagatc cgagctactg ggacaagatc tcacagggcg gcctgcagag aatctatgag 120  
 aagtacacct ggaagctcta ctccgagagg ctgatgacct tgaccggcgt gtacgggttc 180  
 tggaagtacg tgagcaacct ggagaggcgc gagaccgcc gctacatcga gatgttctac 240  
 gccctgaagt accgtagcct ggcaagccag ggtecgctgt ctttcg 286

<210> 707  
 <211> 272  
 <212> DNA  
 <213> Zea mays

<400> 707

gagaaggggtt ggggtgattg cgctaagcgt gcacaggaga ctatccacct cctcttggac 60  
 ctcttgagg cccagatcc gtccaccctg gagaagttcc ttgtacgac cccatgggtg 120  
 tcaatgtcgt taccctctcc cctcatgggt acttcgctca agctaattgc ttgggttacc 180  
 ctgacaccgg aggccagggt gtctacatct tggatcaagt gcgtgctatg gagaacgaaa 240  
 tgctgctgag gatcaagcag tgtggtcttg ac 272

<210> 708  
 <211> 299  
 <212> DNA  
 <213> Zea mays

<400> 708

acctgacccct gccaaacttgg agaagttcct tggaactata ccaatgatgt tcaatgttgt 60  
 taccctttct cctcatggct acttcgctca gtccaatgtg cttggatacc ctgacactgg 120  
 cggtcagggt gtgtacattc tggatcaagt ccgtgctttg gagaatgaga tgcttctgag 180  
 gattaagcag caaggccttg atatcactcc gaagatcctc attgttacca ggctgttgcc 240  
 tgatgctgct gggactacgt gcggtcatcg gctggagaag gtcattggta ctgagcaca 299

<210> 709  
 <211> 329  
 <212> DNA  
 <213> Zea mays

<400> 709

acgcaccgac cacgggtccgc gacctgggtc gctggctgaa cgggcacatc cgctggatct 60  
 ccgcccagct gaaccgcgtc cgcaacgacg agctgtaccg ctacatctgc gacaccaagg 120  
 gcgccttcgt gcagcctgct ttctacgagg ctttcgggct gacgggtggtt gacgccatga 180  
 cctgcggcct gccacggtt gccacagcct acggcggtcc ggccgagatc atcgtgcacg 240  
 gcgtgtctgg ctaccacatc gacccttacc agggcgacaa ggcgtcggcc ctgctcgtgg 300  
 acttcttcga caagtgccag gctgaccgg 329

<210> 710  
 <211> 287  
 <212> DNA  
 <213> Zea mays

<400> 710

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 ataccttggt gcgtgtttgc tcgcccacaa gatgggtgtt actcactgta ccattgccca 120  
 tgcgcttgat aaaactaagt accctaactc cgacctctac tggaagaagt ttgatgatca 180  
 ctaccacttc tcgtgccagt tcaccactga cttgattgct atgaaccatg ccgacttcat 240

catcaccagt accttccaag agatcgccgg atacaaggac accgtcg 287

<210> 711  
<211> 290  
<212> DNA  
<213> Zea mays

<400> 711

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cctggagcag acatgagtgt ttactacccg tatacggaaa ccgacaagag actcactgcc 120  
ttccatcctg aaatcgagga gctcatctac agcgacgtcg agaactccga gcacaagttc 180  
gtgctgaagg acaagaagaa gccctcatc ttctcgatgg cgcgtctcga ccgctgaag 240  
aacatgacag gcctggtcga gatgtacggc aagaacgcgc gcctgaggga 290

<210> 712  
<211> 290  
<212> DNA  
<213> Zea mays

<400> 712

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atgtaccctt tgctcaactt ccttcgcgcc cacaactaca aggggaccac catgatgttg 120  
aacgacagac tccgcagtct cagtgtcttg caaggtgcgc tgaggaaggc tgaggagcac 180  
ctgtccaccc tacaagctga taccaccatac tctgaatttc accacagggtt ccaggaactt 240  
ggtctggaga agggttgggg tgattgcgct aagcgtgcac aggagactat 290

<210> 713  
<211> 274  
<212> DNA  
<213> Zea mays

<400> 713

caacaacttt gttcttgagc tggactttga gccattcaat gcctccttcc cccgtccttc 60  
tctgtcaaag tccattggca atggcgtgca gttcctcaac aggcacctgt catcaaagct 120  
cttccatgac aaggagagca tgtaccctt gctcaacttc cttegcgccc acaactacaa 180  
ggggatgacc atgatgttga acgacagaat ccgcagtctc agtgctctgc aaggtgcgct 240

gaggaaggct gaagagcacc tgtccaccct acaa 274

<210> 714  
<211> 270  
<212> DNA  
<213> Zea mays

<400> 714

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agtacgagtc ccacatcgcg ttactcttc ctgggctcta cgtgtcgtc catggcatcg 120  
atgttttcga tccaagtgc aacattgtct cccctggagc agacatgagt gtttactacc 180  
cgtatacgga aaccgacaag agactcactg ccttccatcc tgaaatcgag gagtcatca 240  
acagcgacgt cgagaactcc gagcacaagt 270

<210> 715  
<211> 267  
<212> DNA  
<213> Zea mays

<400> 715

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gctcaacttc cttcgcgccc acaactacaa ggggatgacc atgatgttga acgacagaat 120  
ccgcagtctc agtgctctgc aagggtcgct gaggaaggct gaggagcacc tgtccaccct 180  
acaagctgat accccatact ctgaatttca ccacagggtc caggaacttg gtctggagaa 240  
gggttggggg gattgcgcta agcgtgc 267

<210> 716  
<211> 262  
<212> DNA  
<213> Zea mays

<400> 716

cctaactccg acctctactg gaagaagttt gaggatcact accattcttc gtgccagttc 60  
accactgact tgattgcaat gaaccatgcc gacttcatca tcaccagtac cttccaagag 120  
atcgccggaa acaaggacac cgtcggccag tacgagtcac acatggcggt cacaatgcct 180  
ggcctgtacc gcgttgcca cggcattgat gtgttcgacc ccaagttcaa catcgtgtct 240

cctggcgcg accgtgccat ct 262

<210> 717  
 <211> 278  
 <212> DNA  
 <213> Zea mays

<400> 717

gaggatcact accacttctc gtgccagttc accactgact tgattgctat gaaccatgcc 60  
 gacttcatca tcaccagtac cttccaagag atcgccggat acaaggacac cgtcggccag 120  
 tacgagtcac acatggcggt cacaatgcct ggtctgtacc gcgttgtcca cggcattgat 180  
 gtgttcgacc ccaagttcaa catcgtgtct cctggcgcg accgtgccat ctacttccc 240  
 tacaccgagt cgcacaagat gctgacctcc cttcaccc 278

<210> 718  
 <211> 263  
 <212> DNA  
 <213> Zea mays

<400> 718

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 ccagatccgt ccaccctgga gaagttcctt ggaacgatcc ccatgggtgtt caatgtcgtt 120  
 atcctctccc ctcatgggta cttcgtcaa gctaattgtct tgggttacct tgacaccgga 180  
 ggccagggtt tctacatctt ggatcaagtg cgcgctatgg agaacgaaat gctgctgagg 240  
 atcaagcagt gtggtcttga cat 263

<210> 719  
 <211> 289  
 <212> DNA  
 <213> Zea mays

<400> 719

acaacctgaa cgggcacatc cgctggatct ccgcccagat gaaccgcgtc cgcaacggcg 60  
 agctgtaccg ctaactctgc gacaccaagg gcgccttcgt gcagcctgca ttctacgagg 120  
 ctttcgggct gacggtgggt gaggccatga cctgcggcct gccacgttc gccaccgcct 180  
 acggcgtaac ggccgagatc atcgtgcacg gcgtgtcggg ctaccacatc gacccttacc 240

agggcgacaa ggcgtcggcc ctgctcgtgg acttcttcga caagtgcc 289

<210> 720  
 <211> 299  
 <212> DNA  
 <213> Zea mays

<400> 720

caggcacctg tcatcaaagc tcttccatga caaggagagc atgtaccctt tgctcaactt 60  
 ccttcgcgcc cacaactaca aggggatgac catgatgttg aacgacagaa tccgcagtct 120  
 cagtgtctctg caaggtgctc tgaggaaggc tgaggagcac ctggcaccct acaagctgat 180  
 accccatact ctgaatttca ccacaggttc caggaacttg gtctggagaa gggttggggg 240  
 gattgcgcta agcgtgcaca ggagactatc cacctcctct tggacctcct ggaggcccc 299

<210> 721  
 <211> 308  
 <212> DNA  
 <213> Zea mays

<400> 721

ctctcagtgc gggctccagc gtatcgagga gaagtacacc tggaagctct actcggagag 60  
 gctgatgacc ctcaccggcg tgtacgggtt ctggaagtac gtgtccaacc tggagaggcg 120  
 cgagaccggg cggtacctgg agatgctgta cgcgctcaag taccgcacca tggcgagcac 180  
 cgtgccgctg gccgtggagg gagagccctc cagcaagtga tgcgcgacgg cggccacaga 240  
 cctgatcgat cgatgagcga gagggagcac tcggagtgtc gtgtctttat ccttgccgat 300  
 tctttctt 308

<210> 722  
 <211> 264  
 <212> DNA  
 <213> Zea mays

<400> 722

tggctcttgac atcacgccga agatccttat tgtcaccagg ttgctccctg atgcaactgg 60  
 caccacctgt ggccagcgcc ttgagaaggc ccttggcacc gagcactgcc atatccttcg 120  
 cgtgccattc agaacagaaa acggaatcgt tcgcaagtgg atctcgcgat ttgaagtctg 180

gccgtacctg gagacttaca ctgatgacgt ggcgcatgag attgctggag agcttcaggc 240  
 caatcctgac ctgatcatcg gaaa 264

<210> 723  
 <211> 259  
 <212> DNA  
 <213> Zea mays

<400> 723

ctgggattac attcgggtga atgtaagtga gctggctgtg gaggagctga gtgtttctga 60  
 gtacttggca ttcaaggaac agctggtgga tggacaatcc aacagcaact ttgtgcttga 120  
 gcttgatatt gagcccttca atgcctcctt tcctcgtcct tccatgtcga agtcaatcgg 180  
 aaatggagtg caattcctta accgacacct gtcgtccaag ttgttcggg acaaggagag 240  
 tttgtacccc ttgctgaat 259

<210> 724  
 <211> 272  
 <212> DNA  
 <213> Zea mays

<400> 724

cccacgcgtc cgcctcatcg agcagtacaa cctgaacggg cacatccgct ggatctccgc 60  
 ccagatgaac cgcgtccgca acggcgagct gtaccgctac atctgcgaca ccaaggcgcg 120  
 cttcgtgcag cctgctttct acgaggcttt cgggctgacg gtggttgagg ccatgacctg 180  
 cggcctgccc acgtttgcca cagcctacgg cggtcgggcc gagatcatcg tgcacggcgt 240  
 gtctggctac cacatcgacc cttaccaggg cg 272

<210> 725  
 <211> 264  
 <212> DNA  
 <213> Zea mays

<400> 725

gaacatgaca ggcctggtcg agatgtacgg caagaacgcg cgcctgaggg agctggcgaa 60  
 cctcgtgacg gttgccggtg accacggcaa ggagtccaag gacagggagg agcaggcgga 120  
 gttcaagaag atgtacagcc tcatcgacga gtacaagttg aagggccata tccggtggat 180

ctcggcgcag atgaaccgcg tccgcaacgg ggagctgtac cgctacattt gcgatacgaa 240  
 gggcgcattc gtgcagcctg cgtg 264

<210> 726  
 <211> 265  
 <212> DNA  
 <213> Zea mays

<400> 726

tgagaatggc atcctccgca agtggatctc tcgttttgat gtctggccat acctggagac 60  
 atacactgag gatgtttcca gtgaaataat gaaagaaatg caggccaagc ctgaccttat 120  
 cattggcaac tacagcgatg gcaacctagt cgccactctg ctcgcacaca agttgggagt 180  
 cactcagtgt accatcgctc atgccttggg gaaaaccaa taccccaact cggacatcta 240  
 cttggacaag ttcgacagcc agtac 265

<210> 727  
 <211> 303  
 <212> DNA  
 <213> Zea mays

<400> 727

acgagtcaca catggcgctc acaatgcctg gcctgtaccg cgttgtccac ggcattgatg 60  
 tgttcgaccc caagttcaac atcgtgtctc ctggcgcgga cctgtccatc tacttcccg 120  
 acaccgagtc gcacaagagg ctgacctccc ttcacccgga gattgaggag ctctgtaca 180  
 gccaaaccga gaacacggag cacaagtctg ttctgaacga caggaacaag ccaatcatct 240  
 tctccatggc tcgtctcgac cgtgtgaaga acttgactgg gctggaggag ctgtacggcc 300  
 gga 303

<210> 728  
 <211> 260  
 <212> DNA  
 <213> Zea mays

<400> 728

caactacaag gggatgacca tgatgttgaa cgacagaatc cgcagtctca gtgctctgca 60  
 aggtgcgctg aggaaggctg aggagcacct gtccacccta caagctgata ccccatactc 120



tgaatttcac cacaggttcc aggaacttgg tctggagaag ggttggggtg attgcgctaa 180  
gcgtgcacag gagactatcc acctcctctt ggacctcctg gaggccccag atccgtccac 240  
cctggagaag ttccttgga 260

<210> 729  
<211> 258  
<212> DNA  
<213> Zea mays

<400> 729

gtaccctaac tccgacctct actggaagaa gtttgaggat cactaccact tctcgtgcca 60  
gttcaccact gacttgattg caatgaacca tgccgacttc atcatcacca gtaccttcca 120  
agagatcgcc ggaacaagg acaccgtcgg ccagtacgag tcacacatgg cgttcacaat 180  
gcctggcctg taccgcgttg tccacggcat tgatgtgttc gacccaagt tcaacatcgt 240  
gtctcctggc gcggacct 258

<210> 730  
<211> 266  
<212> DNA  
<213> Zea mays

<400> 730

tgogaacgat cgcgacctgc catggtggcc ctgctgagat catcgtggac ggggtatctg 60  
gcctgcacat tgacccttac cacagcgaca aggccgcgga tatectggtc aacttctttg 120  
acaaatgcaa ggcagatccg agctactggg acaagatctc acagggcggc ctgcagagaa 180  
tttatgagaa gtacacctgg aagctctact ccgagaggct gatgacctg accggcgtgt 240  
acgggttctg gaagtacgtg agcaac 266

<210> 731  
<211> 293  
<212> DNA  
<213> Zea mays

<400> 731

gtcgtctgcg gcgacctgg caacccttcc aaggacaagg aggagcaggc cgagttcaag 60  
aagatgtttg acctcatcga gcagtacaac ctgaacgggc acatccgctg gatctccgcc 120

cagatgaacc gcgtccgcaa cggcgagctg taccgctaca tctgcgacac caagggcgcc 180  
 ttctgtgcagc ctgctttcta cgaggctttc gggctgacgg tggttgagge catgacctgc 240  
 ggccctgccc cgtttgccac agcctacggc ggtcggggcc agatcatcgt gca 293

<210> 732  
 <211> 265  
 <212> DNA  
 <213> Zea mays

<400> 732

gcgcgcctga gggagctggc gaacctcgtg atcgtcgccg gtgaccacgg caaggagtcc 60  
 aaggacaggg aggagcaggc ggagttcaag aagatgtaca gcctcatcga ctagtacaag 120  
 ttgaagggcc atatccggtg gatctcggcg cagatgaacc gcgtccgcaa cggggagctg 180  
 taccgctaca tttgcgatac caagggcgca ttctgtgcagc ctgcgttcta cgaagcgttc 240  
 ggccctgactg tgatcgagtc catga 265

<210> 733  
 <211> 261  
 <212> DNA  
 <213> Zea mays

<400> 733

ctgagagttc ctgagtacct gcagttcaag gaacagcttg tggaagaagg ccccaacaac 60  
 aactttgttc ttgagctgga ctttgagcca ttcaatgcct ccttcccccg tccttctctg 120  
 tcaaagtcca ttggcaatgg cgtgcagttc ctcaacaggc acctgtcatc aaagctcttc 180  
 catgacaagg agagcatgta ccccttgctc aacttccttc gcgcccacaa ctacaagggg 240  
 atgaccatga tgttgaacga c 261

<210> 734  
 <211> 272  
 <212> DNA  
 <213> Zea mays

<400> 734

aggacaccgt ggggcagtac gagtcccaca tcgcgttcac tcttcctggg ctctaccgtg 60  
 tcgtccatgg catcgatgtt ttgatccca agttcaacat tgtctcccct ggagcagaca 120

tgagtgttta ctaccggtat acggaaacga caagagactc actgccttcc atcctgaaat 180  
 cgaggagctc atctacagcg acgtcgagaa ctccgagcac aagttcgtgc tgaaggacaa 240  
 gaagaagccg atcatcttct cgatggcgcg tc 272

<210> 735  
 <211> 270  
 <212> DNA  
 <213> Zea mays

<400> 735

atcgtgcacg gcgtgtctgg ctaccacatc gacccttacc agggggacaa ggcgtcggcc 60  
 ctgctcgtgg acttcttcga caagtgccag gcggagcgag accactggag caagatctcc 120  
 cagggcgggc tccagcgtat cgaggagaag tacacctgga agctgtattc ggagaggctg 180  
 atgacctca cggcggtgta cgggttctgg aagtacgtgt ccaacctgga gaggcgcgag 240  
 acccggcggt acctggagat gctgtacgcg 270

<210> 736  
 <211> 270  
 <212> DNA  
 <213> Zea mays

<400> 736

ccctgacacc ggaggccagg ttgtctacat cttggatcaa gtgcgcgctc atggagaacg 60  
 aaatgctgct gaggatcaag cagtgtggtc ttgacatcac gccgaagatc cttattgtca 120  
 ccaggttgct ccctgatgca actggcacca cctgtggcca gcgccttgag aaggtccttg 180  
 gcaccggcac tgccatatcc ttgcgctgcc attcagaaca gaaaacggaa tcgttcgcaa 240  
 gtggatctcg cgatttgaag tctggccgta 270

<210> 737  
 <211> 262  
 <212> DNA  
 <213> Zea mays

<400> 737

agctcatcaa cagcgacgtc gagaactccg agcacaagtt cgtgctgaag gacaagaaga 60  
 agccgatcat cttctcgatg gcgcgtctcg accgcgtgaa gaacatgaca ggccctggtg 120

agatgtacgg caagaacgcg cgcctgaggg agctggcgaa cctcgtgata gtcgccggtg 180  
accacggcaa ggagtccaag gacagggagg agcaggcgga gttcaagaag atgtacagcc 240  
tcatcgacga gtacaagttg aa 262

<210> 738  
<211> 262  
<212> DNA  
<213> Zea mays

<400> 738

aaggagtcca aggacagggg ggagcaggcg gagttcaaga agatgtacag cctcatcgac 60  
gagtacaagt tgaagggcca tatccggtgg atctcggcgc agatgaaccg cgtccgcaac 120  
ggggagctgt accgctacat ttgcgatacg aagggcgcat tcgtgcagcc tgcgttctac 180  
gaagcgttcg gcctgactgt gatcgagtcc atgacgtgcg gtctgccaac gatcgcgacc 240  
tgccatggtg gccctgctga ga 262

<210> 739  
<211> 262  
<212> DNA  
<213> Zea mays

<400> 739

ctcgaccttc tggaggcccc tgatcctgcc aacttggaga agttccttgg aactatacca 60  
atgatgttta acgttggttat cctgtctcct catggctact tcgccagtc caatgtgctt 120  
ggataccctg aactggcgg tcaggttgtg tacattctgg atcaggtecg tgctttggag 180  
aatgagatgc ttctgaggat taagcagcaa ggccttgata tcaactccgaa gatcctcatt 240  
gttaccaggc tgttgctga tg 262

<210> 740  
<211> 264  
<212> DNA  
<213> Zea mays

<400> 740

gaaaacaaa taccceaact cggacatcta cttggacaag ttcgacagcc agtaccactt 60  
ctcttgccag ttcacagctg accttattgc catgaaccac actgatttca tcatcaccag 120

cacattccaa gaaatcgcg gaagcaagga caccgtggg cagtacgagt cccacatcgc 180  
 gttcactctt cctgggctct accgtgtcgt ccatggcatc gatgttttcg atcccaagtt 240  
 caacattgtc tcccctggag caga 264

<210> 741  
 <211> 300  
 <212> DNA  
 <213> Zea mays

<400> 741

cccacgcgtc cgcccacgcg tccgcccacg cgtccgatct tctcgatggc gcgtctcgac 60  
 cgcggtgaaga acatgacagg cctgggtggag atgtacggca agaacgcgcg cctgaaggag 120  
 ctggcgaaacc tcgtgatcgt cgccggtgac cacggcaagg agtccaagga cagggaggag 180  
 caggcggagt tcaagaagat gtacagcctc atcgacgagt acaagttgaa gggccatata 240  
 cgggtggatct cggcgcagat gaaccgcgtc cgcaacgggg agctgtaccg ctacatttgc 300

<210> 742  
 <211> 278  
 <212> DNA  
 <213> Zea mays

<400> 742

tgcaattcct taaccgacac ctgtcgtcca agttgttcca ggacaaggag agtttgtacc 60  
 ccttgcgtgaa cttcctcaag gtcataact acaagggcac gacgatgatg ttgaatgaca 120  
 gaatccaaag ccttcgtggt ctccaatcat ccctgagaaa ggcagaggag tatctactga 180  
 gtgttcctca agacactccc tactcggagt tcaaccatag gttccaagag cttggcttgg 240  
 agaagggttg gggtgacact gcgaacgtgt actcgaca 278

<210> 743  
 <211> 315  
 <212> DNA  
 <213> Zea mays

<220>  
 <221> unsure  
 <222> (1)..(315)  
 <223> unsure at all n locations

<400> 743

acctggagag gcgcgagacc cggcgggtacc tggagatgct gtacgcgctc aagtaccgca 60  
ccatggcgag acaccgtgcc gctggccgtg gacggagagc cctccagcaa gtgatgcgcg 120  
acggcggcca cagacctgat cgatcgatga gcgagaggga gcactcggag tgtcgtgtct 180  
tttcccttgc catttctttc tttttttccc ttcccggagg cgaaaaaaag agtctgcttt 240  
tgctaggcgg cgggcgttcg ttgctgctct ttgcttcaag agttanattt acctaccttg 300  
tcaaggtctt gttcc 315

<210> 744

<211> 275

<212> DNA

<213> Zea mays

<400> 744

atttcaccac aggttccagg aacttggctc ggagaagggt tggggtgatt gcgctaagcg 60  
tgcacaggag actatccacc tcctcttga cctcctggag gcccagatc cgtccaccct 120  
ggagaagtgc cttggaacga ttcccatggt tttcaatgtc gttatccgct ccctcatgg 180  
ttacgtcgct caagctaattg tcttgggtta cctgggcacc ggaggccagg ttgtctacat 240  
cttgatcaa gtggcgcgct atggagaacg aaatg 275

<210> 745

<211> 271

<212> DNA

<213> Zea mays

<400> 745

gaggagctga gtgtttctga gtacttggca ttcaaggaac agctgggtga tggacaatcc 60  
aacagcaact ttgtgcttga gcttgatttt gagcccttca atgcctcctt tcctcgctct 120  
tccatgtcga agtccatcgg aaatggagtg caattcctta accgacacct gtcgtccaag 180  
ttgttccagg acaaggagag tttgtacccc ttgtgaact tcctcaaggc tcataactac 240  
aagggcacga cgatgatgtt gaatgacaga a 271

<210> 746

<211> 258

<212> DNA

<213> Zea mays

<400> 746

cggaatcggt cgcaagtgga tctcgcgatt tgacgtctgg ccgtacctgg agacttacac 60  
tgatgacgtg gcgcatgaga ttgctggaga gcttcaggcc aatcctgacc tgatcatcgg 120  
aaactacagt gacggaaacc ttgttgctg tttgctcgcc cacaagatgg gtgttactca 180  
ctgtaccatt gcccatgcgc ttgagaaaac taagtaccct aactccgacc tctactggaa 240  
gaagtttgag gatcacta 258

<210> 747

<211> 265

<212> DNA

<213> Zea mays

<400> 747

cgccgaagat ccttattgtc accagggtgc tccctgatgc aactggcacc acctgtggcc 60  
agcgccttga gaaggctcctt ggcaccgagc actgccatat ccttcgcgtg ccattcagaa 120  
cagaaaacgg aatcgttcgc aagtggatct cgcgatttga agtctggccg tacctggaga 180  
cttacctga tgacgtggcg catgagattg ctggagagct tcaggccaat cctgacctga 240  
tcatcggaac ctacagtgc ggaaa 265

<210> 748

<211> 263

<212> DNA

<213> Zea mays

<400> 748

gtcgagaact ccgagcaciaa gttcgtgctg aaggacaaga agaagccgat catcttctcg 60  
atggcgcgtc tcgaccgct gaagaacatg acaggcctgg tcgagatgta cggcaagaac 120  
gcgcgcctga gggagctggc gaacctcgtg atcgttgccg gtgaccacgg caaggagtcc 180  
aaggacaggg aggagcaggc ggagttcaag aagatgtaca gcctcatcga cgagtacaag 240  
ttgaagggcc atatccggtg gat 263

<210> 749

<211> 257

<212> DNA

<213> Zea mays

<400> 749

ggacggggta tctggcctgc acattgaccc ttaccacagc gacaaggccg cggatatacct 60  
ggtcaacttc tttgacaaat gcaaggcaga tccgagctac tgggacaaga tctcacaggg 120  
cggcctgcag agaatttatg agaagtacac ctggaagctc tactccgaga ggctgatgac 180  
cctgaccggc gtgtacgggt tctggaagta cgtgagcaac ctggagaggc gcgagaccgc 240  
ccgctacatc gagatgt 257

<210> 750

<211> 261

<212> DNA

<213> Zea mays

<400> 750

ccttaccagg gcgacaaggc gtcggccctg ctctgggact tcttcgacaa gtgccaggcg 60  
gacccgagcc actggagcaa gatctcccag ggcgggctcc agcgtatcga ggagaagtac 120  
acctggaagc tctactcgga gaggctgatg accctcaccg gcgtgtacgg gttctggaag 180  
tacgtgtcca acctggagag gcgcgagacc cggcgggtacc tggagatgct gtacgcgctc 240  
aagtaccgca ccatggcgaa c 261

<210> 751

<211> 256

<212> DNA

<213> Zea mays

<400> 751

ccggtgacca cggcaaggag tccaaggaca gggaggagca ggcggagttc aagaagatgt 60  
acagcctcat cgacgagtac aagttgaagg gccatatccg gtggatctcg gcgcagatga 120  
accgcgtccg caacggggag ctgtaccgct acatttacga taccaagggc gcattcgtgc 180  
agcctgcgtt ctacgaagcg ttcggcctga ctgtgatcga gtccatgacg tgcggtctgc 240  
caacgatcgc gacctg 256

<210> 752

<211> 274

<212> DNA



<213> Zea mays

<400> 752

gaacgaaatg ctgctgagga tcaagcagtg tggctcttgac atcacgccga agatccttat 60  
tgtcaccagg ttgctccctg atgcaactgg caccacctgt ggccagcgcc ttgagaaggt 120  
ccttggcacc gagcactgcc atatccttcg cgtgccattc agaacagaaa acggaatcgt 180  
tcgcaagtgg atctcgcgat ttgaagtctg gccgtacctg gagacttaca ctgatgacgt 240  
ggcgcatgag attgctggag agcttcaggc caat 274

<210> 753

<211> 274

<212> DNA

<213> Zea mays

<400> 753

cggacggtgg gtcacggaa actacagtga cggaaacctt gttgcgtggt tgctcgccca 60  
caagatgggt gttactcact gtaccattgc ccatgcgctt gagaacacta agtaccctaa 120  
ctccgacctc tactggaaga agtttgagga tcactaccac ttctcgtgcc agttcaccac 180  
tgacttgatt gcaatgaacc atgccgactt catcatcacc agtaccttcc aagagatcgc 240  
cggaaacaag gacaccgtcg gccagtagca gtca 274

<210> 754

<211> 263

<212> DNA

<213> Zea mays

<400> 754

ctggagacat aactgagga tgtttccagt gaaataatga aagaaatgca ggccaagcct 60  
gaccttatca ttggcaacta cagcgatggc aagctagtcg ccactctgct cgcacacaag 120  
ttgggagtca ctcaagtgtac catcgctcat gccttggaga aaaccaaata ccccaactcg 180  
gacatctact tggacaagtt cgacagccag taccatttct cttgccagtt cacagctgac 240  
cttattgcca tgaaccacac tga 263

<210> 755

<211> 274

<212> DNA

<213> Zea mays

<400> 755

gctcctgtac agccaaaccg agaacacgga gcacaagttc gatctgaacg acaggagcaa 60  
gccaatcatc ttctccatgg ctctgtctga ccgtgtgaag aacttgactg ggctgggtgga 120  
gctgtacggc cggaacaagc ggctgcagga gctgggtgtac ctctgggtcg tctgcggcga 180  
ccatggcaac ccttccgagg acaaggatga tcaggccgag ttcatgaaga tgtttgacct 240  
cgtcgagcag tacaacctga acgggcacat ccgc 274

<210> 756

<211> 256

<212> DNA

<213> Zea mays

<400> 756

tcgagatgta cggcaagaac gcgcgcctga gggagctggc gaacctcgtg atcgttgccg 60  
gtgaccacgg caaggagtcc aaggacaggg aggagcaggc ggagttcaag aagatgtaca 120  
gcctcatcga cgagtacaag ttgaagggcc atatccggtg gatctcggcg cagatgaacc 180  
gcgtccgcaa cggggagctg taccgctaca tttgcgatac gaagggcgca ttcgtgcagc 240  
ctgcgttcta cgaagc 256

<210> 757

<211> 261

<212> DNA

<213> Zea mays

<400> 757

catctacagc gacgtcgaga actccgagca caagttcgtg ctgaaggaca agaagaagcc 60  
gatcatcttc tcgatggcgc gtctcgaccg cgtgaagaac atgacaggcc tggtcgagat 120  
gtacggcaag aacgcgcgcc tgaggagct ggcgaacctc gtgatcgttg ccggtgacca 180  
cggcaaggag tccaaggaca gggaggagca ggcggagtcc aagaagatgt acagcctcat 240  
cgacgagtac aagttgaagg g 261

<210> 758

<211> 252

<212> DNA

<213> Zea mays

<400> 758

cttccttcgc gccacaact acaaggggat gaccatgatg ttgaacgaca gaatccgcag 60  
tctcagtgct ctgcaaggtg cgctgaggaa ggctgaggag cacctgtcca ccctacaagc 120  
tgatacccca tactctgaat ttcaccacag gttccaggaa cttgggtctgg agaagggttg 180  
gggtgattgc gctaagcgtg cacaggagac tatccacctc ctcttggaac tcctggaggc 240  
cccagatccg tc 252

<210> 759

<211> 279

<212> DNA

<213> Zea mays

<400> 759

cccacgcgtc cgcccacgcg tccgcctgc tegtggactt ctcgacaag tgccaggcgg 60  
agcgagccac tggagcaaga tctcccaggg cgggctccag cgtatcgagg agaagtacac 120  
ctggaagctg tactcggaga ggctgatgac cctcaccggc gtgtacgggt tctggaagta 180  
cgtgtccaac ctggagaggc gcgagacccg gcggtacctg gagatgctgt acgcgctcaa 240  
gtaccgcacc atggcgagca ccgtgccgct ggccgtgga 279

<210> 760

<211> 254

<212> DNA

<213> Zea mays

<400> 760

ggtggagctg tacggccgga acaagcggct gcaggagctg gtgaacctcg tggctcgtctg 60  
cggcgaccat ggcaaccctt ccaaggacaa ggaggagcag gccgagttca agaagatggt 120  
tgacctcatc gagcagtaca acctgaacgg gcacatccgc tggatctccg cccagatgaa 180  
ccgcgtccgc aacggcgagc tgtaccgcta catctgcgac accaagggcg ccttcgtgca 240  
gcctgctttc tacg 254

<210> 761

<211> 272

<212> DNA

<213> Zea mays

<400> 761

ggagacttac actgatgacg tggcgcatga gattgctgga gagcttcagg ccaatcctga 60  
cctgatcatc ggaaactaca gtgacggaaa ccttggtgcg tgtttgctcg ccacaagat 120  
gggtgttact cactgtgcc a gtgcgcatgc gcctgagaaa actaagtacc ctaactccga 180  
cctctactgg aagaagtttg aggatcacta ccacttctcg tgccagttca ccactgactt 240  
gattgcaatg aaccatgccg acttcatcat ca 272

<210> 762

<211> 287

<212> DNA

<213> Zea mays

<400> 762

atcgtgcacg gcgtgtctgg ctaccacatc gacccttacc agggcgacaa ggcgtcggcc 60  
ctgctcgtgg acttcttcga caagtgccag gcggaccgag ccactggagc aagatctccc 120  
agggcgggct ccagcgtatc gaggagaagt acacctggaa gctgtactcg gagaggctga 180  
tgaccctcac cggcgtgtac gggttctgga agtacgtgtc caacctggag aggcgcgaga 240  
cccggcggta cctggagatg ctgtacgcgc tcaagtaccg caccatg 287

<210> 763

<211> 307

<212> DNA

<213> Zea mays

<220>

<221> unsure

<222> (1) .. (307)

<223> unsure at all n locations

<400> 763

cggacgcgtg gagcgtatcg aggagaagta cacctggaag ctgtactcgg agaggctgat 60  
gaccctcaac ggcgtgtacg ggttctggaa gtacgtgtcc aacctggaga ggcgcgagac 120  
ccggcgggtac ctggagatgc tgtacgcgct caagtaccgc accatggcga gcaccgtgcc 180  
gctggccgtg gaggagagc ctccagcaag tgatgcgtga cggcggccac agacctgatc 240  
gatcgatgag cgagagggag cactcggagt gtcgtgtctt ttcncttgcc atttctttct 300

ttctttct

307

<210> 764  
<211> 255  
<212> DNA  
<213> Zea mays

<400> 764

gacaccgtgg ggcagtacga gtccacatc gcgttcactc ttcttgggt ctaccgtgtc 60  
gtccatggca tcgatgtttt cgatcccaag ttcaacattg tctccctgg agcagacatg 120  
agtgtttact acccgatatac ggaaaccgac aagagactca ctgccttcca tctgaaatc 180  
gaggagctca tctacagcga cgtcgagaac tccgagcaca agttcgtgct gaaggacaag 240  
aagaagccga tcatc 255

<210> 765  
<211> 250  
<212> DNA  
<213> Zea mays

<400> 765

gtggagctgt acggccgga caagcggctg caggagctgg tgaacctcgt ggtcgtctgc 60  
ggcgaccatg gcaacccttc caaggacaag gaggagcagg ccgagttcaa gaagatgttt 120  
gacctcatcg agcagtacaa cctgaacggg cacatccgct ggatctccgc ccagatgaaa 180  
cgcgtccgca acggcgagct gtaccgctac atctgcgaca ccaagggcgc cttcgtgcag 240  
cctgctttct 250

<210> 766  
<211> 251  
<212> DNA  
<213> Zea mays

<400> 766

gcggtctgcc aacgatcgcg acctgccatg gtggccctgc tgagatcatc gtggacgggg 60  
tatctggcct gcacattgac ccttaccaca gcgacaaggc cgcggatata ctggtcaact 120  
tctttgacaa atgcaaggca gatccgagct actgggacaa gatctcacag ggcggcctgc 180  
agagaattta tgagaagtac acctggaagc tctactccga gaggctgatg acctgaccg 240

gcgtgtacgg g 251

<210> 767  
<211> 255  
<212> DNA  
<213> Zea mays

<400> 767

gcgggaagca aggacaccgt ggggcagtac gaggccaca tcgcgttcac tcttcctggg 60  
ctctaccgtg tcgtccatgg catcgatgtt ttogatcca agttcaacat tgtctcccct 120  
ggagcagaca tgagtgttta ctaccgtat acggaaaccg acaagagact cactgccttc 180  
catcctgaaa tcgaggagct catctacagc gacgtcgaga actccgagca caagttcgtg 240  
ctgaaggaca agaag 255

<210> 768  
<211> 297  
<212> DNA  
<213> Zea mays

<400> 768

cttctttgac aaatgcaagg cagatccgag ctactgggac aagatctcac agggcggcct 60  
gcagagaatc tatgagaagt acacctggaa gctctactcc gagaggctga tgaccctgac 120  
cggcgtgtac gggttctgga agtacgtgag caacctggag aggcgcgaga cccgccgcta 180  
catcgagatg ttctacgcc tgaagtaccg tagcctggca agccaggttc cgctgtcctt 240  
cgattagtagc ggggaaagaa gaagaagaag aagcccaggc cggagaacca tcgcctg 297

<210> 769  
<211> 265  
<212> DNA  
<213> Zea mays

<400> 769

cccacgcgtc cggatgcttc tgaggattaa gcagcaaggc cttgatata ctccgaagat 60  
cctcattggt accaggctgt tgcctgatgc tgctgggact acgtgcggtc agcggctgga 120  
gaaggtcatt ggtactgagc acacagacat cattcgcgtt cccttcagaa atgagaatgg 180  
catcctccgc aagtggatct ctcgttttga tgtctggcca tacctggaga catacactga 240

ggatgtttcc agtgaaataa tgaaa 265

<210> 770  
<211> 257  
<212> DNA  
<213> Zea mays

<400> 770

caactacaag gggatgacca tgatgttgaa cgacagaatc cgcagtctca gtgctctgca 60  
aggtgcgctg aggaaggctg aggagcacct gtccacccta caagctgata cccatactc 120  
tgaatttcac cacaggttcc aggaacttgg tctggagaag ggttggggtg attgcgctaa 180  
gcgtgcacag gagactatcc acctcctctt ggacctcctg gaggccccag atccgtccac 240  
ccggagaagt tcttgga 257

<210> 771  
<211> 247  
<212> DNA  
<213> Zea mays

<400> 771

atgtaagtga gctggctgtg gaggagctga gtgtttctga gtacttggca ttcaaggaac 60  
agctgggtgga tggacaatcc aacagcaact ttgtgcttga gcttgatttt gagcccttca 120  
atgcctcctt tctcgtcct tccatgtcga agtccatcgg aaatggagtg caattcctta 180  
accgacacct gtcgtccaag ttgttccagg acaaggagag tttgtacccc ttgctgaact 240  
tctcaa 247

<210> 772  
<211> 270  
<212> DNA  
<213> Zea mays

<400> 772

cccacgcgtc cgcccacgcg tccggacaag gagagcatgt accccttgct caacttcctt 60  
cgcgcccaca actacaaggg gatgaccatg atgttgaacg acagaatccg cagtctcagt 120  
gctctgcaag gtgcgctgag gaaggctgag gagcacctgt ccaccctaca agctgatacc 180  
ccatactctg aatttcacca caggttccag gaacttggtc tggagaaggg ttggggtgat 240

tgcgctaagc gtgcacagga gactatccac 270

<210> 773  
 <211> 268  
 <212> DNA  
 <213> Zea mays

<400> 773

cgcgtccgca acggcgagct gtaccgctac atctgcgaca ccaagggcgc cttcgtgcag 60  
 cctgctttct acgaggcttt cgggctgacg gtggttgagg ccatgacctg cggcctgccc 120  
 acgtttgccca cagcctacgg cgggccggcc gagatcatcg tgcacggcgt gtctggctac 180  
 cacatcgacc cttaccaggg cgacaaggcg tcggccctgc tcgtggactt cttcgacaag 240  
 tgccaggcgg acccgagcca ctggagca 268

<210> 774  
 <211> 246  
 <212> DNA  
 <213> Zea mays

<400> 774

cctgcacatt gacccttacc acagcgacaa ggccgcggat atcctggtca acttctttga 60  
 caaatgcaag gcagatccga gctactggga caagatctca cagggcggcc tgcagagaat 120  
 ttatgagaag tacacctgga agctctactc cgagaggctg atgacctga ccggcgtgta 180  
 cgggtttctgg aagtacgtga gcaccctgga gaggcgcgag acccgccgct acatcgagat 240  
 gttcta 246

<210> 775  
 <211> 277  
 <212> DNA  
 <213> Zea mays

<400> 775

acacacgcgt ccgcggacgc gtgggcccac actctgaatt tcaccacagg ttccaggaac 60  
 ttggtctgga gaagggttgg ggtgatagcg ctaagcgagc acaggagact atccacctcc 120  
 tcttggaact cctggaggcc ccagatccgt ccaccctgga gaagttcctt ggaacgatcc 180  
 ccatggtggt caatgtcggt atcctctccc ctcatggtta cttcgctcaa gctaattgtct 240



tggggttaccc tgacaccgga ggccagggtg tctacat 277

<210> 776  
<211> 248  
<212> DNA  
<213> Zea mays

<400> 776

ggagaacgaa atgctgctga ggatcaagca gtgtgggtctt gacatcacgc cgaagatcct 60  
tattgtcacc aggttgctcc ctgatgcaac tggcaccacc tgtggccagc gccttgagaa 120  
ggtccttggc accgagcact gccatatacct tcgcgtgccca ttcagaacag aaaacggaat 180  
cgttcgcaag tggatctcgc gatttgaagt ctggccgtac ctggagactt aactgatga 240  
cgtggcgc 248

<210> 777  
<211> 251  
<212> DNA  
<213> Zea mays

<400> 777

cgggaaacaa ggacaccgtc ggccagtacg agtcacacat ggcgttcaca atgcctggcc 60  
tgtaccgcgt tgtccacggc attgatgtgt tcgaccccaa gttcaacatc gtgtctcctg 120  
gcgcggacct gtccatctac ttcccgta caagaggctg acctcccttc 180  
accgggagat tgaggagctc ctgtacagcc aaaccgagaa cacggagcac aagttcgttc 240  
tgaacgacag g 251

<210> 778  
<211> 283  
<212> DNA  
<213> Zea mays

<400> 778

ggcggcgggc gttcgttget gctctttgct tcaagagtta aatttaccta ccttgtcaag 60  
gtcttgttcc atcattgac cgggtgtcgc ttttagtagt ctgatggact gttagtagtt 120  
tgcgttgctg cggttgagag ggaacggtgg tgggtgggtgt gtgtgtgcag tcgggtgtgg 180  
tgctcccttt gtttctgga tgggatgttg ctcttgaat aataatcgta gtggccttgg 240

agcccttttc ctgaaataag agcagcatcc tagtgcttca ctt 283

<210> 779  
<211> 288  
<212> DNA  
<213> Zea mays

<400> 779

gtgacggaaa ccttggtgcg tgtttgctcg cccacaagat ggggtgttact cactgtacca 60  
ttgcccacatgc gcttgagaaa actaagtacc ctaactccga cctctactgg aagaagtttg 120  
aggatcacta ccacttctcg tgccagttca ccactgactt gattgcaatg aaccatgccg 180  
acttcatcat caccagtacc ttccaagaga tcgccggaaa caaggacacc gtcggccagt 240  
acgagtcaca catggcgctt acaatgcctg gcctgtaccg cgttgctc 288

<210> 780  
<211> 244  
<212> DNA  
<213> Zea mays

<400> 780

ccttcacccg gagattgagg agctcctgta cagccaaacc gagaacacgg agcacaagtt 60  
cggttctgaac gacaggaaca agccaatcat cttctccatg gctcgtctcg accgtgtgaa 120  
gaacttgact gggctgggtg agctgtacgg ccggaacaag cggctgcagg agctggtgaa 180  
cctcgtgggc gtctgcggcg accatggcaa cccttccaag gacaaggagg agcaggccga 240  
gttc 244

<210> 781  
<211> 247  
<212> DNA  
<213> Zea mays

<400> 781

acggcaagga gtccaaggac agggaggagc aggcggagtt caagaagatg tacagcctca 60  
tcgacgagta caagttgaag ggccatatcc ggtggatctc ggccgagatg aaccgcgtcc 120  
gcaacgggga gctgtaccgc tacatttgcg ataccaaggg cgcattcgtg cagcctgcgt 180  
tctacgaagc gttcggcctg actgtgatcg agtccatgac gtgcggtctg ccaacgatcg 240

cgacctg 247

<210> 782  
<211> 261  
<212> DNA  
<213> Zea mays

<400> 782

tgcgttctac gaagcgttcg gcctgactgt gatcgagtcc atgacgtgcg gtctgccaac 60  
gatcgcgacc tgccatggtg gccctgctga gatcatcgtg gacggggat ctggcctgca 120  
cattgaccct taccacagcg acaaggccgc ggatatcctg gtcaacttct ttgacaaatg 180  
caaggcagat ccgagctact gggacaagat ctacagggc ggctgcaga gaatttatga 240  
gaagtacacc tggaagctct a 261

<210> 783  
<211> 257  
<212> DNA  
<213> Zea mays

<400> 783

ccgcgtccgc aacggcgagc tgtaccgcta catctgcgac accaagggcg ccttcgtgca 60  
gcctgctttc tacgaggctt tcgggctgac ggtggttgag gccatgacct gcggcctgcc 120  
cacgtttgcc acagcctacg gcggtccggc cgagatcatc gtgcacggcg tgtctggcta 180  
ccacatcgac ccttaccagg gcgacaaggc gtcggccctg ctctgggact tcttcgacaa 240  
gtgccaggcg gacccga 257

<210> 784  
<211> 251  
<212> DNA  
<213> Zea mays

<400> 784

gacaagaaga agccgatcat cttctcgatg gcgcgtctcg accgcgtgaa gaacatgaca 60  
ggcctggtgg agatgtacgg caagaacgcg cgcctgaggg agctggcgaa cctcgtgatc 120  
gtcgccggtg accacggcaa ggagtccaag gacagggagg agcaggcgga gttcaagaag 180  
atgtacagcc tcatcgacga gtacaagttg aagggccata tccggtggat ctcggcgcag 240

atgaaccgcg t

251

<210> 785

<211> 290

<212> DNA

<213> Zea mays

<400> 785

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ccctgaagta ccgtagcctg gcaagccagg ttccgctgtc cttcgattag tacggggaaa 120

gaagaagaag aagaagccca ggccgctatt ttatcgcttg catttcgacg tgtttcaccg 180

caattcgcat tgtagtcgt gtattggagt tatgtgtact tggtttccaa gaactttagt 240

tccttctcgt tttttttcct tgtttgagcg tttttgggca gcgctggcct 290

<210> 786

<211> 311

<212> DNA

<213> Zea mays

<400> 786

cggacgcgtg gcgcgacgcg tgggctgcca acttgagaaa gttccttgga actataccaa 60

tgatgttcaa tgttggtatc cttactcctc atggcagatt tcgctcagtc caatgtgctt 120

ggataccctg aactggcgg tcagggttggtg tacattctgg atcaagtcgg tgctttggag 180

aatgagatgc ttctgaggat taagcagcaa ggccttgata tcactccgaa gatcctcatt 240

gttaccaggc tgttgctga tgctgctggg actacgtgcg gtcagcggct ggagaaggct 300

attggtactg a 311

<210> 787

<211> 258

<212> DNA

<213> Zea mays

<400> 787

cttgatcttg agcccttcaa tgcctccttt cctcgtcctt ccatgtcgaa gtccatcgga 60

aatggagtgc aattccttaa ccgacacctg tcgtccaagt tgttccagga caaggagagt 120

ttgtaccctt tgctgaactt cctcaaggct cataactaca agggcacgac gatgatgttg 180

aatgacagaa tccaaagcct tcgtggtctc caatcatccc tgagaaaggc agaggagtat 240  
 ctactgagtg ttcctcaa 258

<210> 788  
 <211> 244  
 <212> DNA  
 <213> Zea mays

<400> 788

atgagtgttt actaccgta tacggaaacc gacaagagac tcaactgcctt ccatcctgaa 60  
 atcgaggagc tcatctacag cgacgtcgag aactccgagc acaagttcgt gctgaaggac 120  
 aagaagaagc cgatcatctt ctcgatggcg cgtctcgacc gcgtgaagaa catgacaggc 180  
 ctgggtcgaga tgtacggcaa gaacgcgcgc ctgagggagc tggcgaacct cgtgatcgtt 240  
 gccg 244

<210> 789  
 <211> 270  
 <212> DNA  
 <213> Zea mays

<400> 789

cggacgcgtg ggcggacgcg tgggtgcggc gaccatggca acccttccaa ggacaaggag 60  
 gagcaggccg agttcaagaa gatgtatgac ctcatcgagc agtacaacct gaacggggcac 120  
 atccgctgga tctccgcca gatgaaccgc gtccgcaacg gcgagctgta ccgctacatc 180  
 tgcgacacca agggcgccct cgtgcagcct gctttctacg aggctttcgg gctgacgggtg 240  
 gttgaggcca tgacctgcgg cctgcccacg 270

<210> 790  
 <211> 274  
 <212> DNA  
 <213> Zea mays

<220>  
 <221> unsure  
 <222> (1)..(274)  
 <223> unsure at all n locations  
 <400> 790

ggtacctgga gatgctgtac gcgctcaagt accgcaccat ggcgagcacc gtgccgctgg 60  
ccgtggaggg agagccctcc agcaagtgat gcgtgacggc ggccacagac ctgatcgatc 120  
gatgagcgag agggagcact cggagtgtcg tgtcttttcc cttgccannn nnnnnnnnnn 180  
nnnnntcct tcccggaggc gaaaaaaaaa gagtctgctt ttgctaggcg gcgggcgttc 240  
gttgcctgctc tttgcttcaa gagttaaatt tacc 274

<210> 791  
<211> 256  
<212> DNA  
<213> Zea mays

<400> 791

cccacgcgtc cggccaaacc gagaacacgg agcacaagtt cgttctgaac gacaggaaca 60  
agccaatcat cttctccatg gctcgtctcg accgtgtgaa gaacttgact gggctggtgg 120  
agctgtacgg ccggaacaag cggctgcagg agctgggtgaa cctcgtggtc gtctgcggcg 180  
accatggcaa cccttccaag gacaaggagg agcaggccga gttcaagaag atgtttgacc 240  
tcatcgagca gtacaa 256

<210> 792  
<211> 287  
<212> DNA  
<213> Zea mays

<400> 792

tgcggtacct ggagatgctg tacgcgtca agtaccgcac catggcgagc accgtgccgc 60  
tggccgtgga gggagagccc tccagcaagt gatgcgtgac ggcggccaca gacctgatcg 120  
atcgatgagc gagagggagc actcggagtg tcgtgtcttt tcccttgcca tttctttctt 180  
tcttcttttt ccttcccga ggcgaaaaaa aaagagtctg cttttgctag gcggcgggcg 240  
ttegttgctg ctctttgctt caagagttaa atttacctac cttgtca 287

<210> 793  
<211> 244  
<212> DNA  
<213> Zea mays

<400> 793

caccgagcac tgccatatcc ttcgcgtgcc attcagaaca gaaaacggaa tcgttcgcaa 60  
 gtggatctcg cgatttgaag tctggccgta cctggagact tacactgatg acgtggcgca 120  
 tgagattgct ggagagcttc aggccaatcc tgacctgatc atcggaact acagtgcg 180  
 aaaccttggt gcgtgtttgc tcgcccacaa gatgggtgtt actcactgta ccattgccca 240  
 tgcg 244

<210> 794  
 <211> 244  
 <212> DNA  
 <213> Zea mays

<400> 794

caccacctgt ggccagcgcc ttgagaaggt ccttggcacc gagcactgcc atatccttcg 60  
 cgtgccattc agaacagaaa acggaatcgt tcgcaagtgg atctcgcgat ttgaagtctg 120  
 gccgtacctg gagacttaca ctgatgacgt ggcgcatgag attgctggag agcttcaggc 180  
 caatcctgac ctgatcatcg gaaactacag tgacggaaac cttgttgctg gtttgctcgc 240  
 ccac 244

<210> 795  
 <211> 282  
 <212> DNA  
 <213> Zea mays

<220>  
 <221> unsure  
 <222> (1)..(282)  
 <223> unsure at all n locations

<400> 795

cactgacttg attgcaatga accatgccga cttcatcatc accagtacct tccaagagat 60  
 cgccggaaac aaggacaccg tcggccagta cgagtcacac atggcggttca caatgcctgg 120  
 cctgtaccgc gttgtccacg gcattgatgt gttcgacccc aagttcaaca tcgtgtctcc 180  
 tggcgcggaac ctgtccatct acttcccgtg caccgagtcg cacaagaggc tgacctcctt 240  
 tcnccggggg ttnggggncc tttaatncnn ncgnggnntg ng 282

<210> 796  
 <211> 249

<212> DNA  
 <213> Zea mays  
 <400> 796  
 gacaagaaga agccgatcat cttctcgatg gcgcgtctcg accgcgtgaa gaacatgaca 60  
 ggcttggtgg agatgtacgg caagaacgcg cgcctgaggg agctggcgaa cctcgtgata 120  
 gtcgccggtg accacggcaa ggagtccaag gacagggagg agcaggcgga gttcaagaag 180  
 atgtacagcc tcacgcacga gtacaagttg aagggccata tccggtggat ctcggcgag 240  
 atgaaccgc 249

<210> 797  
 <211> 248  
 <212> DNA  
 <213> Zea mays  
 <400> 797  
 gttatccttt ctctcatgg ctacttcgct cagtccaatg tgcttggata ccctgacact 60  
 ggcggtcagg ttgtgtacat tctggatcaa gtccgtgctt tggagaatga gatgcttctg 120  
 aggattaagc agcaaggcct tgatatcact ccgaagatcc tcattgttac caggctgttg 180  
 cctgatgctg ctgggactac gtgcggtcag cggctggaga aggtcattgg tactgagcac 240  
 acagacat 248

<210> 798  
 <211> 295  
 <212> DNA  
 <213> Zea mays  
 <400> 798  
 ggcgagctgt accgctacat ctgcgacacc aaggccgcct tcgtgcagcc tgctttctac 60  
 gaggcttttcg ggctgacggg ggttgaggcc atgacctgcg gcctgcccac gtttgccaca 120  
 gcctacggcg gtccggccga gatcatcgtg caggcgtgt cggctaccac atcgaccctt 180  
 accagggcga caaggcgtcg gccctgctcg tggacttctt cgacaagtgc caggcggacc 240  
 cgagccactg gagcaagatc tcccagggcg ggctccagcg tatcgaggag aagta 295

<210> 799  
 <211> 255



<212> DNA  
 <213> Zea mays  
  
 <220>  
 <221> unsure  
 <222> (1)..(255)  
 <223> unsure at all n locations  
  
 <400> 799  
  
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 ctctgtgcag cctgctttct acgaggcttt cgggctgacg gtggttgagg ccatgacctg 180  
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 cgggctgacg gtggttgagg ccatgacctg cggcctgccc acgtttgcca cagcctacgg 180  
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 cgac 244

<210> 801  
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 <213> Zea mays  
  
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 gccagttcac cactgacttg attgcaatga accatgccga cttcatcatc accagtacct 180  
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<210> 802  
 <211> 256  
 <212> DNA  
 <213> Zea mays  
  
 <400> 802  
  
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 gagaagtaca cctggaagct ctactcggag aggctgatga ccctcaccgg cgtgtacggg 180  
 ttctggaagt acgtgtccaa cctggagagg cgcgagaccc ggcggtacct ggagatgctg 240  
 tacgcgctca agtacc 256

<210> 803  
 <211> 252  
 <212> DNA  
 <213> Zea mays  
  
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 taccacttct cttgccagtt ccagctgacc ttattgccat gaaccacacc gatttcatca 180  
 tcaccagcac attccatgaa atcgcgggaa gcaaggacac cgtggggcag tacgagtcac 240  
 acatcgctt ca 252

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 <212> DNA  
 <213> Zea mays  
  
 <400> 804  
  
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 gtgccagttc accactgact tgattgcaat gaaccatgcc gacttcatca tcaccagtac 180  
 cttccagaga tcgccggtaa caaggacacc gtcggccagt acgagtcaca catggcgctc 240  
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<210> 805  
 <211> 287  
 <212> DNA  
 <213> Zea mays

<400> 805

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 tcgcttttag tagtctgatg gactgttagt agtttgcgtt gcgtcggttg agaggggaacg 180  
 gtggtggtgg tgggtgtgtg gcagtcgggt gtggtgctcc ctttgtttcc tggatgggat 240  
 gttgctcctt gaataataat cgtagtggcc ttggagccct tttcctg 287

<210> 806  
 <211> 276  
 <212> DNA  
 <213> Zea mays

<400> 806

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 gactgttagt agtttgcgtt gcgtcggttg agaggggaacg gtggtggtgg tgggtgtgtg 180  
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 cgtagtggcc ttggagccct tttcctgaaa taagag 276

<210> 807  
 <211> 254  
 <212> DNA  
 <213> Zea mays

<400> 807

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 gccgctggcc gtggaggag agccctccag caagtgatgc gtgacggcgg ccacagacct 120  
 gatcgatoga tgagcgagag ggagcactcg gagtgtcgtg ttttttccct tgccattact 180  
 ttctttcttc ttttcttc ccgaggcga aaaaaaaga gtctgctttt gctaggcggc 240  
 gggcgttcgt tgct 254

<210> 808  
 <211> 321  
 <212> DNA  
 <213> Zea mays

<400> 808

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 acatcacgcc gaagatcctt attgtcacca ggttgctccc tgatgcaact ggcaccacct 180  
 gtggccagcg ccttgagaag gtccttggca ccgagcactg ccatatcctt cgcgtgccat 240  
 gtcagaacag aaaacggaat cgttcgcaag tggatctcgc gatttgaagt cgtgccgtac 300  
 ctggagactt acactgatga c 321

<210> 809  
 <211> 273  
 <212> DNA  
 <213> Zea mays

<400> 809

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 agccctccag caagtgatgc gcgacggcgg ccacagacct gatcgatcga tgagcgagat 180  
 ggagcactcg gagtgtcgtg tcttttccct tgccatttct ttcttttttt cccttcccgg 240  
 aggcgaaaaa aagagtctgc ttttgctagg cgg 273

<210> 810  
 <211> 241  
 <212> DNA  
 <213> Zea mays

<400> 810

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 ggatatcctg gtcaacttct ttgacaaatg caaggcagat ccgagctact gggacaagat 180  
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<210> 811  
 <211> 235  
 <212> DNA  
 <213> Zea mays

<400> 811

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 tcgatggcgc gtctcgaccg cgtgaagaac atgacaggcc tggtcgagat gtacggcaag 180  
 aacgcgcgcc tgagggagct ggcgaacctc gtgatcgttg ccggtgacca cggca 235

<210> 812  
 <211> 242  
 <212> DNA  
 <213> Zea mays

<400> 812

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 tggacttctt cgacaagtgc caggcggacc cgagccactg gagcaagatc tcccagggcg 180  
 ggctccagcg tatcgaggag aagtacacct ggaagctcta ctcgagagg ctgatgaccc 240  
 tc 242

<210> 813  
 <211> 240  
 <212> DNA  
 <213> Zea mays

<400> 813

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 gacgtgcggt ctgccaacga tcgcgacctg ccatggtggc cctgctgaga tcatcgtgga 120  
 cggggtatct ggctgcaca ttgaccctta ccacagcgac aaggccgcgg atatcctggt 180  
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<210> 814

<211> 244  
 <212> DNA  
 <213> Zea mays  
  
 <400> 814  
  
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 tcct 244

<210> 815  
 <211> 237  
 <212> DNA  
 <213> Zea mays  
  
 <400> 815  
  
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 ctgccccaca agatgggtgt tactcactgt accattgccc atgcgcttga gaaaactaag 120  
 taccctaact ccgacctcta ctggaagaag tttgaggatc actaccactt ctcgtgccag 180  
 ttcaccactg acttgattgc aatgaaccat gccgacttca tcatcaccag taccttc 237

<210> 816  
 <211> 239  
 <212> DNA  
 <213> Zea mays  
  
 <400> 816  
  
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 ttctggatca ggtccgtgct ttggagaatg agatgcttct gaggattaag cagcaaggcc 120  
 ttgatatac tccgaagatc ctcattgtta ccaggetggt gcctgatgct gctgggacta 180  
 cgtgcgggtca gcggctggag aaggctcattg gtactgagca cacagacatc attcgcgtt 239

<210> 817  
 <211> 263  
 <212> DNA  
 <213> Zea mays

<400> 817

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cacacaagtt gggagtcact cagtgtacca tcgctcatgc cttggagaaa accaaatacc 120

ccaactcgga catctacttg gacaagttcg acagccagta ccacttctct tgccagttca 180

catgtgacct tattgccatg aaccacactg atttcatcat caccagcaca tccctcaaat 240

tcgcgggaag caaggacacc gtg 263

<210> 818

<211> 271

<212> DNA

<213> Zea mays

<400> 818

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ctgatggact gttagtagtt tgcgttgctg cggttgagag ggaacggtgg tgggtggtgg 180

gtgtgtgcag tcgggtgtgg tgctcccttt gtttcctgga tgggatgttg ctccctgaat 240

aataatcgta gtggccttgg agcccttttc c 271

<210> 819

<211> 366

<212> DNA

<213> Zea mays

<400> 819

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ctggagcaga catgtagtgt ttatcatctt atacggtaat cgataagaga ctcaactgagt 120

ttcaacctga catcgagaac gtcacatcaaca gcgacgtcga gaactccgag cacaagttcg 180

tgctgaatga caagaagaat ccgatcatct tctcgatgtc gcgtctcgac cgcgtgaaga 240

acatgtcagg cctggtggag atgtacggca agaacgcgcg cctgagggag ctggcgaacc 300

tcgtgatcgt cgccggtgac cacggcaagg agtccataga cagggaggag caggcggagt 360

tcaaga 366

<210> 820

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 ctgcagagaa tctatgagaa gtacacctgg aagctctact ccgagaggct gatgaccctg 180  
 accggcgtgt acgggttctg gaagtacgtg a 211

<210> 821  
 <211> 246  
 <212> DNA  
 <213> Zea mays  
  
 <400> 821  
  
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 actacaaggg caccgacgatg atgttgaatg acagaatcca aagccttcgt ggtctccaat 180  
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 agttca 246

<210> 822  
 <211> 237  
 <212> DNA  
 <213> Zea mays  
  
 <400> 822  
  
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 cggggagctg taccgctaca tttgcgatac gaagggcgca ttcgtgcagc ctgcgttcta 120  
 cgaagcggtc ggctgactg tgatcgagtc catgacgtgc ggtctgccaa cgatcgcgac 180  
 ctgccatggt ggcctgctg agatcatcgt ggacggggta tctggcctgc acattga 237

<210> 823  
 <211> 236  
 <212> DNA  
 <213> Zea mays



<400> 823

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ttgccccatgc gcttgagaaa actaagtacc ctaactccga cctctactgg aagaagtttg 120

aggatcacta ccacttctcg tgccagttca tcaactgactt gattgcaatg aaccatgccg 180

acttcatcat caccagtacc ttccaagaga tcgccggaaa caaggacacc gtcggc 236

<210> 824

<211> 273

<212> DNA

<213> Zea mays

<400> 824

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ctggaggccc ctgatcctgc caacttgag aagttccttg gaactatacc aatgatgttc 120

aacgttggtta tctgtctcc tcatggctac ttgccccagt ccaatgtgct tggataccct 180

gacactggcg gtcaggttgt gtacattctg gatcaggtcc gtgccttgga gaatgagatg 240

cttctgagga ttaagcagca gggcctgata tca 273

<210> 825

<211> 245

<212> DNA

<213> Zea mays

<400> 825

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cagtgtacca tcgctcatgc cttggagaaa accagatacc ccaactcgga catctacttg 120

gacaagttcg acagccagta ccacttctct tgccagttca cagctgacct tattgccatg 180

aaccacactg atttcatcat caccagcaca ttccaagaaa tcgcgggaag caaggacacc 240

gtggg 245

<210> 826

<211> 232

<212> DNA

<213> Zea mays

<400> 826

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 acctcctgga ggccccagat ccgtccaccc tggagaagtt ccttggaacg atccccatgg 180  
 tgttcaatgt cgttatcctc tcccctcatg gttacttcgc tcaagctaata gt 232

<210> 827  
 <211> 238  
 <212> DNA  
 <213> Zea mays

<400> 827

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 tggagatgct gtacgcgctc aagtaccgca ccatggcgag caccgtgccg ctggccgtgg 120  
 agggagagcc ctccagcgag tgatgcgtga cggcggccac agacctgac gagcgatgag 180  
 cgagagggag cactcggagt gtcgtgtctt tgcccttgcc atttctttct ttcttctt 238

<210> 828  
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 <212> DNA  
 <213> Zea mays

<220>  
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 <223> unsure at all n locations

<400> 828

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 gcctacggcg ntccggccga gatcatcgtg caccggcgtg ctggctacca catcgaccct 180  
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 ctgagccact ggagc 255

<210> 829  
 <211> 271  
 <212> DNA  
 <213> Zea mays

<400> 829

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 agtctggccg tacctggaga cttacactga tgacgtggcg catgagattg ctggagagct 120  
 tcaggccaat cctgacctga tcatccgga actacagtga cggaacctt gttgcgtgtt 180  
 tgctcgccca caagatgggt gttactcact gtaccattgc ccatgcgctt gagaaaacta 240  
 agtaccctaa ctccgacctc tactggacga a 271

<210> 830  
 <211> 260  
 <212> DNA  
 <213> Zea mays

<400> 830

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 catggtggcc ctgctgagat catcgtggac ggggtatctg gcctgcacat tgacccttac 180  
 cacagcgaca aggccgcgga tatcctggtc aacttctttg acaaagcaa ggcagatccg 240  
 agctactggg acaagatctc 260

<210> 831  
 <211> 272  
 <212> DNA  
 <213> Zea mays

<400> 831

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 cggtaacctg agatgctgta cgcgctcaag taccgcacca tggcgagcac cgtgccgctg 120  
 gccgtggagg gagagccctc cagcaagtga tgcgcgacgg cggccacaga cctgatcgat 180  
 cgatgagcga gagggagcac tcggagtgtc gtgtcttttc gcttgccatt tctttctttt 240  
 attcgcttcg cggaggcgaa gaaaagagtc tg 272

<210> 832  
 <211> 252  
 <212> DNA  
 <213> Zea mays

<400> 832

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ccatgccgac ttcacatca ccagtacctt ccaagagatc gccggaaca aggacaccgt 120  
cggccagtac gagtcacaca tggcggtcac aatgcctggc ctgtaccgcg ttgtccacgg 180  
cattgatgtg ttcgaccca agttcaacat cgtgtctcct ggcgcggacc tgtccatcta 240  
cttccccgtac ac 252

<210> 833  
<211> 232  
<212> DNA  
<213> Zea mays

<400> 833

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attgaccctt accacagcga caaggccgcg gatatacctgg tcaacttctt tgacaaatgc 120  
aaggcagatc cgagctactg ggacaagatc tcacagggcg gcctgcagag aatttatgag 180  
aagtacacct ggaagctcta ctccgagagg ctgatgaccc tgaccggcgt gt 232

<210> 834  
<211> 238  
<212> DNA  
<213> Zea mays

<400> 834

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ggagaagtac acctggaagc tctactcgga gaggtgatg accctcaccg gcgtgtacgg 120  
gttctggaag tacgtgtcca acctggagag gcgcgagacc cggcgggtacc tggagatgct 180  
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<210> 835  
<211> 272  
<212> DNA  
<213> Zea mays

<400> 835

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cggaaactac acgtgacgga aaccttggtg cgtgtttgct cgcccacaag atgggtgtta 120

ctcactgtac cattgcccac gcgcttgaga aaactaagta ccctaactcc gacctctact 180  
 ggaagaagtt tgaggatcac taccacttct cgtgccagtt caccactgac ttgattgcaa 240  
 tgaaccatgc cgacttcac atcaccagta cc 272

<210> 836  
 <211> 262  
 <212> DNA  
 <213> Zea mays

<400> 836

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 ttgccacagc ctacggcggt ccggccgaga tcatcgtgca cggcgtgtct ggctaccaca 180  
 tcgaccctta ccagggcgac aaggcgtcgg ccctgctcgt ggacttcttc gacaaatgcc 240  
 aggcggaccc gagccaatgg ag 262

<210> 837  
 <211> 313  
 <212> DNA  
 <213> Zea mays

<400> 837

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 gatctgtttc accgcaattc gcattgttag tcgtgtattg gagttatgtg tacttggttt 180  
 ccaagaactt tggttccttg tatttatatc tttcttgat gaacgttttt aggcagcgt 240  
 ggcttggttc ctagtatggg gagaattggc tgcacctttt gcttcgaata aaaatgcctg 300  
 ctggttcacc tgt 313

<210> 838  
 <211> 225  
 <212> DNA  
 <213> Zea mays

<400> 838

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ggcggagttc aagaagatgt acagcctcat cgacgagtac aagttgaagg gccatatccg 120  
 gtggatctcg gcgcagatga accgcgtccg caacggggag ctgtaccgct acatttgca 180  
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<210> 839  
 <211> 241  
 <212> DNA  
 <213> Zea mays

<400> 839

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 cttgcttctc gaccttcttg aggccctga tctgccaac ttggagaagt tccttggaa 180  
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 t 241

<210> 840  
 <211> 235  
 <212> DNA  
 <213> Zea mays

<400> 840

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 ttctacgagg ctttcgggct gacggtggtt gaggccatga cctgcggcct gccacgttt 120  
 gccacagcct acggcggtcc ggccgagatc atcgtgcacg gcgtgtctgg ctaccacatc 180  
 gacccttacc agggcgacaa ggcgtcggcc ctgctcgtgg acttcttcga caagt 235

<210> 841  
 <211> 226  
 <212> DNA  
 <213> Zea mays

<400> 841

gaggatcaag cagtgtggtc ttgacatcac gccgaagatc cttattgtca ccaggttgct 60  
 ccctgatgca actggcacca cctgtggcca gcgccttgag aaggtccttg gcaccgagca 120  
 ctgccatatc cttecggtgc cattcagaac agaaaacgga atcgttcgca agtggatctc 180

gcgatttgaa gtctggccgt acctggagac ttacactgat gacgtg 226

<210> 842  
 <211> 227  
 <212> DNA  
 <213> Zea mays

<400> 842

ggagcacctg tccaccctac aagctgatac cccatactct gaatttcacc acagggttcca 60

ggaacttggg ctggagaagg gttgggggtga ttgcgctaag cgtgcacagg agactatcca 120

cctcctcttg gacctcctgg aggccccaga tccgtccacc ctggagaagt tccttggaa 180

gatccccatg gtgttcaatg tcgttatcct ctcccctcat ggttact 227

<210> 843  
 <211> 226  
 <212> DNA  
 <213> Zea mays

<400> 843

gcccacaaga tgggtgttac tcaactgtacc attgccccatg cgcttgagaa aactaagtac 60

cctaactccg acctctactg gaagaagttt gaggatcact accacttctc gtgccagttc 120

accactgact tgattgcaat gaaccatgcc gacttcatca tcaccagtac cttccaagag 180

atcgccggaa acaaggacac cgtcggccag tacgagtcac acatgg 226

<210> 844  
 <211> 237  
 <212> DNA  
 <213> Zea mays

<400> 844

cagaatccaa agccttcgtg gtctccaatc atccctgaga aaggcagagg agtatctact 60

gagtgttcct caagacactc cctactcgga gttcaaccat aggttccaag agcttggctt 120

ggagaagggg tggggtgaca ctgcgaacgt gtactcgaca cactccactt gcttctcgac 180

cttctggagg cccctgatcc tgccaacttg gagaagttcc ttggaactat accaatg 237

<210> 845  
 <211> 234

<212> DNA  
 <213> Zea mays  
  
 <400> 845  
  
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 gtggatctcg ggcgagatga accgcgtccg caacggggag ctgtaccgct acatttgcca 180  
 tacgaagggc gcattcgtgc agcctgcgtt ctacgaagcg ttcggcctga ctgt 234

<210> 846  
 <211> 243  
 <212> DNA  
 <213> Zea mays  
  
 <400> 846  
  
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 tgcgatacga acggcgcatc cgtgcagcct gcgttctacg aagcgttcgg cctgactgtg 120  
 atcgagtcca tgacgtgcgg tctgccaaacg atcgcgacct gccatgggtgg ccctgctgag 180  
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 gat 243

<210> 847  
 <211> 238  
 <212> DNA  
 <213> Zea mays  
  
 <220>  
 <221> unsure  
 <222> (1)..(238)  
 <223> unsure at all n locations  
  
 <400> 847  
  
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 gacctgtcca tctacttccc gtacaccgag tcgcacaaga ggctgacctc ccttcacccg 120  
 gagattgagg agctcctgta cagccaaacc gagaacacgg agcacaagtt cgttctgaac 180  
 gacaggaaca agccaatcat cttctccatg gctcgtctcg accgtgtgaa gaattgaa 238

<210> 848



<211> 228  
 <212> DNA  
 <213> Zea mays  
  
 <400> 848  
  
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 ctctgtggact tcttcgacaa gtgccaggcg gacccgagcc actggagcaa gatctcccag 120  
 ggcggggctcc agcgtatcga ggagaagtac acctggaagc tctactcgga gaggtgatg 180  
 accctcaccg gcgtgtacgg gttctggaag tacgtgtcca acctggag 228

<210> 849  
 <211> 217  
 <212> DNA  
 <213> Zea mays  
  
 <400> 849  
  
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 tgtacggcaa gaacgcgcgc ctgagggagc tggcgaacct cgtgatcggt gccggtgacc 120  
 acggcaagga gtccaaggac agggaggagc aggcggagtt caagaagatg tacagcctca 180  
 tcgacgagta caagttgaag ggccatatcc ggtggat 217

<210> 850  
 <211> 236  
 <212> DNA  
 <213> Zea mays  
  
 <400> 850  
  
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 gacaaggagg agcaggccga gttcaagaag atgtttgacc tcatcgagca gtacaacctg 120  
 aacgggcaca tccgctggat ctccgcccag atgaaccgcg tccgcaacgg cgagctgtac 180  
 cgctacatct gcgacaccaa gggcgccttc gtgcagcctg ctttctacga ggcttt 236

<210> 851  
 <211> 222  
 <212> DNA  
 <213> Zea mays  
  
 <400> 851

caagcggctg caggagctgg tgaacctcgt ggctcgtctgc ggcgacctg gcaacccttc 60  
 caaggacaag gaggagcagg ccgagttcaa gaagatgttt gacctcatcg agcagtacaa 120  
 cctgaacggg cacatccgct ggatctccgc ccagatgaac cgcgtccgca acggcgagct 180  
 gtaccgctac atctgcgaca ccaagggcgc cttcgtgcag cc 222

<210> 852  
 <211> 224  
 <212> DNA  
 <213> Zea mays

<400> 852

cccttccaag gacaaggagg agcaggccga gttcaagaag atgtttgacc tcatcgagca 60  
 gtacaacctg aacgggcaca tccgctggat ctccgccag atgaaccgcg tccgcaacgg 120  
 cgagctgtac cgctacatct gcgacaccaa gggcgccttc gtgcagcctg ctttctacga 180  
 ggctttcggg ctgacggtgg ttgaggccat gacctgcggc ctgc 224

<210> 853  
 <211> 265  
 <212> DNA  
 <213> Zea mays

<400> 853

cgtgtctcct ggcgcggacc tgtccatcta cttcccgtag accgagtcgc acaagaggct 60  
 gacctccctt caccgggaga ttgaggagct cctgtacagc acacggagca caagttcggt 120  
 ctgaacgaca ggaacaagcc aatcatcttc tccatggctc gtctcgaccg tgtgaagaac 180  
 ttgactgggc tggaggagct gtacggccgg aacaagcggc tgcaggagct ggtgaactcg 240  
 tggtcgtctc gagcgacatg gcaac 265

<210> 854  
 <211> 260  
 <212> DNA  
 <213> Zea mays

<400> 854

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 cgacagaatc cgcagtctca gtgctctgca aggtgcgctg aggaaggctg aggagcacct 120

gtccacccta caagctgata cccatactc tgaatttcac cacaggttcc aggaacttgg 180  
tctggagaag ggttggggtg attgcgctaa gcgtgcacag gagactatcc acctcctctt 240  
ggacctcctg gaggccccag 260

<210> 855  
<211> 260  
<212> DNA  
<213> Zea mays

<400> 855

ggacctggtg acctcaccg gcgtgtacgg gttctggaag tacgtgtcca acctggagag 60  
gcgagcgacc cggcgggtacc tggagatgct gtacgcgctc aagtaccgca ccatggcgag 120  
cacctgtccg ctggccgtgg agggagagcc ctccagcaag tgatgcgtga cggcggccac 180  
agacctgatc gatcgatgag cgagagggag cactcggagt gtcgtgtctt ttcccttgcc 240  
atttctttct ttcttctttt 260

<210> 856  
<211> 266  
<212> DNA  
<213> Zea mays

<400> 856

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cctgatcctg ccaacttggga gaagttcctt ggaactatac caatgatgtt caatgttggt 120  
atcctttctc ctcatggcta ctctgctcag tccaatgtgc ttggataccc tgacactggc 180  
ggtcagggtg tgtacattct ggatcaagtc cgtgcttttg agaatgagat gcttctgagg 240  
attaagcagc aagccttgat atcact 266

<210> 857  
<211> 233  
<212> DNA  
<213> Zea mays

<400> 857

gcacgaggcg ccttcgtgca gcctgcttcc tacgaggctt tcgggctgac ggtgggtgag 60  
gccatgacct gcggcctgcc cacgtttgcc acagcctacg gcggtccggc cgagatcatc 120

gtgcacggcg tgtctggcta ccacatcgac ccttaccagg gcgacaaggc gtcggccctg 180  
ctcgtggact tcttcgacaa gtgccaggcg gacccgagcc actggagcaa gat 233

<210> 858  
<211> 225  
<212> DNA  
<213> Zea mays

<400> 858

ccaagttcaa catcgggtct cctggcacgg acctgtccat ctacttcccg tacaccgagt 60  
cgcacaagat gctgacctcc cttcagccgg agatttacga gtcctgtac aggcaaaccg 120  
agaacacgga gcacaagttc gttctgaacg acagggacaa gccaatcatc ttctccatgg 180  
ctcgtctcga ccgtgtgaag aactttactg ggctgggtgga gctgt 225

<210> 859  
<211> 275  
<212> DNA  
<213> Zea mays

<400> 859

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aagccagggtt ccgctgtcct tcgattagta cggggaaaga agaagaagaa gaagcccagg 120  
ccggagaacc atcgctgca agtcgatctg tttcaccgca attcgattg ttagtcgtgt 180  
attggagtta tgtgtacttg gtttccaaga actttgggtc cttgtttttt tttctttctt 240  
gtttgagcgg ttttgggcag cgctggcctg gttcc 275

<210> 860  
<211> 267  
<212> DNA  
<213> Zea mays

<400> 860

cggacgcgtg ggcggacgcg tgggcggacg cgtgggttg aactatacca atgatgttca 60  
acgttggtat cctgtctcct catggctact tcgaccagtc caatgtgctt ggataccctg 120  
aactggcgg tcaggttggtg tacattctgg atcagggtccg tgctttggag aatgagatgc 180  
ttctgaggat taagcagcaa ggccttgata tcaactccgaa gatcctcatt gttaccaggc 240

tgttgcctga tgctgctggg actacgt 267

<210> 861  
 <211> 228  
 <212> DNA  
 <213> Zea mays

<400> 861

gcacgagcca acctggagag gcgcgagacc cggcgggtacc tggagatgct gtacgcgctc 60  
 aagtaccgca ccatggcgag caccgtgccg ctggccgtgg agggagagcc ctccagcaag 120  
 tgatgcgcga cggcggccac agacctgac gatcgatgag cgagagggag cactcggagt 180  
 gtctgtcttt ttcccttgcc atttctttct ttttttcct tcccggag 228

<210> 862  
 <211> 247  
 <212> DNA  
 <213> Zea mays

<400> 862

cggagatcca gcgatgtgc ccgttcaggt gaaccgcgtc cgcaacggcg agctgtaccg 60  
 ctacatctgc gacaccaagg ggccttcgt gcagcctgct ttctacgagg ctttcgggct 120  
 gacggtgggt gaggccatga cctgcggcct gccacgttt gccacagcct acggcgggtcc 180  
 ggccgagatc atcgtgcacg gcgtgtctgg ctaccacatc gacccttacc agggcgacaa 240  
 ggcgctcg 247

<210> 863  
 <211> 219  
 <212> DNA  
 <213> Zea mays

<400> 863

actcactgta ccattgccca tgcgcttgag aaaactaagt accctaactc cgacctctac 60  
 tggaagaagt ttgaggatca ctaccacttc tcgtgccagt tcaccactga cttgattgca 120  
 atgaaccatg ccgacttcat catcaccagt accttccaag agatcgccgg aaacaaggac 180  
 accgtcggcc agtacgagtc acacatggcg ttcacaatg 219

<210> 864

<211> 229  
 <212> DNA  
 <213> Zea mays

<400> 864

cttggatacc ctgacactgg cggtcaggtt gtgtacattc tggatcaggt ccgtgctttg 60  
 gagaatgaga tgcttctgag gattaagcag caaggccttg atatcactcc gaagatcctc 120  
 attgttacca ggctgttgcc tgatgctgct gggactacgt gcggtcagcg gctggagaag 180  
 gtcattggta ctgagcacac agacatcatt cgcgttcctt tcagaaatg 229

<210> 865  
 <211> 239  
 <212> DNA  
 <213> Zea mays

<400> 865

cggaccgtgg ctcaacaggc acctgtcatc aaagctcttc catgacaagg agagcatgta 60  
 ccccttgctc gacttccttc gcgcccacaa ctacaagggg atgaccatga tgttgaacga 120  
 cagaatccgc agtctcagtg ctctgcaagg tgcgctgagg aaggctgagg agcacctgtc 180  
 caccctacaa gctgataccc catactctga atttcaccac aggttccagg aacttggtc 239

<210> 866  
 <211> 259  
 <212> DNA  
 <213> Zea mays

<400> 866

tgctcgagcc gaatcggtc gagcttcaga aatgagaatg gcacccctcg caagtggatc 60  
 tctacttttg atgtctggcc atagctggag acatacactg aggatgtttc cagtgaata 120  
 atgaaagata tgcaggccaa gcctgacctt atcattggca actacagcga tggcaacccg 180  
 gtcgccactc tgctcgcgca caagttggga gtcactcagt gtaccatcgc tcatgccttg 240  
 gagaaaacca aatacccca 259

<210> 867  
 <211> 222  
 <212> DNA  
 <213> Zea mays

<400> 867

ccaggccgga gaaccatcgc ctgcatttcg atctgtttca ccgcaattcg cattgttagt 60  
cgtgtattgg agttatgtgt acttggtttc caagaacttt ggttccttct cgtttttttt 120  
ccttgtttga gagtttttgg gcagcgctgg cctggttcct agtatggtgg gaattggctg 180  
caccttttgc ttcgaataaa aatgcctgct cgttcacctg tc 222

<210> 868

<211> 220

<212> DNA

<213> Zea mays

<400> 868

ctgggacaag atctcacagg gcggcctgca gagaatctat gagaagtaca cctggaagct 60  
ctactccgag aggctgatga ccctgaccgg cgtgtacggg ttctggaagt acgtgagcaa 120  
cctggagagg gcgagagacc gccgctacat cgagatgttc tacgccctga agtaccgtag 180  
cctggcaagc caggttcgcg tgtccttcga ttagtacggg 220

<210> 869

<211> 235

<212> DNA

<213> Zea mays

<400> 869

cagacgctgg gcgaccgcgt gaagaacatg acaggcctgg tggagatgta cggcaagaac 60  
gcgcgcctga gggagctggc gaacctcgtg atcgtcgccg gtgaccacgg caaggagtcc 120  
aaggacaggg aggagcaggc ggagttcaag aagatgtaca gcctcatcga cgagtacaag 180  
ttgaagggcc atatccggtg gatctcggcg cagatgaacc gcgtccgcaa cgggg 235

<210> 870

<211> 259

<212> DNA

<213> Zea mays

<400> 870

tgagaatggc atcctccgca agtggatctc tcgttttgtc gtctggccat acctggagac 60  
atacactgag gatgtttcca gtgaaataat gaaagaaatg caggccaagc ctgaccttat 120

cattggcaac tacagcgatg gcaacctagt cgccactctg ctcgcacaca agttgggagt 180  
 cactcattgt accatcgctc atgccttggg gaaaaccaa taccccaact cggacatcta 240  
 cttggacaag tcgacagcc 259

<210> 871  
 <211> 245  
 <212> DNA  
 <213> Zea mays

<400> 871

gttcaccact gacttgattg caatgaacca tgccgacttc atcatcacca gtaccttcca 60  
 agagatcgcc ggaacaagg acaccgtcgg ccagtagcag tcacacatgg cggtcacaat 120  
 gcctggcctg tacgcggttg tcaacggcat tgatgtgttc gacccaggt tcaacatcgt 180  
 gtctcctggc gcggacctgt ccacctactt cccgtaaacc gattcgcaca agaggctgac 240  
 ctccc 245

<210> 872  
 <211> 277  
 <212> DNA  
 <213> Zea mays

<400> 872

aggagagttt gtacccttg ctgaattcct caaggctcat aactacaagg gcacgacgat 60  
 gttgttgaat gacagaatcc aaagccttcg tgggtctcaa tcatccctga gaaaggcaga 120  
 ggagtatcta ctgagtgttc ctcaagacac tctctactcg gaggccaacc atagggtcca 180  
 agagcttggc ttggagaagg gttggggtga catgcgaacg tgtactcgac aactccatt 240  
 gcttctcgac cttctggagg ccctgatccg ccaattg 277

<210> 873  
 <211> 247  
 <212> DNA  
 <213> Zea mays

<400> 873

ctcgagccgc tcgagccggg caccgacgat atgttgaatg acagaatcca aagccttcgt 60  
 ggtctccact catccctgag aaaggcagag gagtatctac tgagtgttcc tcaagacact 120



ccctactcgg agttcaacca taggttccaa gagcttggtt tggagaaggg ttgggggtgac 180  
 actgcgaacg tgtactcgac acactccact tgcttcttga ccttcttgag gccctgatc 240  
 ctgccaa 247

<210> 874  
 <211> 231  
 <212> DNA  
 <213> Zea mays

<400> 874

gggcgacaag gcgtcggccc tgctcgtgga cttcttcgac aagtgccaa aggagcgatg 60  
 ccactggagc aagatctccc agggcgggct ccagcgtatc gaggagaagt acacctggaa 120  
 gctgtactcg gagaggctga tgaccctcac cggcgtgtac gggttctgga agtacgtgtc 180  
 caacctggag aggcgcgaga cccggcggtta cctggagatg ctgtacgcgc t 231

<210> 875  
 <211> 266  
 <212> DNA  
 <213> Zea mays

<400> 875

cggacgcgtg ggcggacgcg tgggcggacg cgtggggttg aactatacca atgatgttca 60  
 acgttgttat actgtctcct catggctact tcgcacagtc caatgtgctt ggataccctg 120  
 aactggcgg tcaggttgtg tacattctgg atcaggtccg tgctttggag aatgagatgc 180  
 ttctgaggat taagcagcaa ggccttgata tcaactccgaa gatcctcatt gttaccaggc 240  
 tgttgctga tgctgctggg actacg 266

<210> 876  
 <211> 169  
 <212> DNA  
 <213> Zea mays

<400> 876

cgctcaagct aatgtcttgg gttaccctga caccggaggc caggttgtct acatcttgga 60  
 tcaagtgcgc gctatggaga acgaaatgct gctgaggatc aagcagtgtg gtccctgacat 120  
 cacgccgaag atccctaatt tccacaggtt gtcctctgat gcaactggc 169

<210> 877  
 <211> 306  
 <212> DNA  
 <213> Zea mays

<400> 877

aaggacaggg aggagcaggc ggagttcaag aagatgtaca gcctcatcga cgagtacaag 60  
 ttgaagggcc atatccggtg gatctcggcg cagatgaacc gcgtccgcaa cggggagctg 120  
 taccgctaca tttgcgatac gaagggcgca ttcgtgcagc ctgcgttcta cgaagcgttc 180  
 ggccctgactg tgatcgagtc catgacgtgc ggtctgccaa cgatcgcgac ctgccatggt 240  
 ggccctgctg agatcatcgt ggacggggta tctggcctgc acattgaccc ttaccacagc 300  
 gacaag 306

<210> 878  
 <211> 244  
 <212> DNA  
 <213> Zea mays

<400> 878

ttcggcacga gacaagatct cacagggcgg cctgcagaga atctatgaga agtacacctg 60  
 gaagctctac tccgagaggc tgatgaccct gaccggcgtg tacgggttct ggaagtacgt 120  
 gagcaacctg gagaggcgcg agaccgcgcg ctacatcgag atgttctacg ccctgaagta 180  
 ccgtagcctg gcaagccagg ttccgctgtc cttcgattag tacggggaaa gaagaagaag 240  
 aaga 244

<210> 879  
 <211> 214  
 <212> DNA  
 <213> Zea mays

<400> 879

acggaaaccg acaagagact cactgccttc catcctgaaa tcgaggagct catctacagc 60  
 gacgtcgaga actccgagca caagtctgtg ctgaaggaca agaagaagcc gatcatcttc 120  
 tcgatggcgc gtctcgaccg cgtgaagaac atgacaggcc tggtcgagat gtacggcaag 180  
 aacgcgcgcc tgaggagct ggcgaacctc gtga 214

<210> 880  
 <211> 213  
 <212> DNA  
 <213> Zea mays

<400> 880

gagattgctg gagagcttca ggccaatcct gacctgatca tcggaaacta cagtgcgga 60  
 aaccttggtg cgtgtttgct cgcccacaag atgggtgtta ctactgtac cattgcccac 120  
 gcgcttgaga aaactaagta ccctaactcc gacctctact ggaagaagtt tgaggatcac 180  
 taccacttct cgtgccagtt caccactgac ttg 213

<210> 881  
 <211> 239  
 <212> DNA  
 <213> Zea mays

<400> 881

ctcatgcctt ggagaaaacc aaatacccca actcggacat atacttggac aaattcgaca 60  
 gccagtacca cttctcttgc cagttcacag ctgaccttat tgccatgaac cacaccgttt 120  
 tcatcatcac cagcacattc cttgtttatc tcgggaagca aggacaccgt ggggcagtac 180  
 gagtcccaca tcgcgttcac tcttctctggg ctctaccgtg tcgtccatgg catgatgtt 239

<210> 882  
 <211> 215  
 <212> DNA  
 <213> Zea mays

<400> 882

acaagagact cactgccttc catcctgaaa tcgaggagct catctacagc gacgtcgaga 60  
 actccgagca caagttcgtg ctgaaggaca agaagaagcc gatcatcttc tcgatggcgc 120  
 gtctcgaccg cgtgaagaac atgacaggcc tggtcgagat gtacggcaag aacgcgcgcc 180  
 tgagggagct ggcgaacctc gtgatcgttg ccggt 215

<210> 883  
 <211> 253  
 <212> DNA  
 <213> Zea mays

<400> 883

gctgcttgac cttcttgagg cccctgatcc tgccaacttg gagaagttcc ttggaactat 60

accaatgatg ttcaatggtg tgatccttcc tcctcatggc tacttcgctc agtccaatgt 120

gcttggatac cctgacactg gcggtcaggt tgtgtacatt ctggatcaag tccgtgcttt 180

ggagaatgag atgcttctga ggattaagca gcaaggcctt gatatcactc cgaagatcct 240

cattgttacc agg 253

<210> 884

<211> 265

<212> DNA

<213> Zea mays

<400> 884

cttcccgtac accgagtcgc acaagaggct gacctccctt cacccgaga ttgaggagct 60

cctgtacagc caaaccgaga acacggagca caagttcgtt ctgaacgaca ggaacaagcc 120

aatcattctt gtttgcctacc tccaaatcgg gggcgcttgt tctcgaccgt gtgaagaact 180

tgactgggct ggtggagctg tacggccgga acaagcggct gcaggagctg gtgaacctcg 240

tggtcgtctg cggcgaccat ggcaa 265

<210> 885

<211> 213

<212> DNA

<213> Zea mays

<400> 885

ctgaatttca ccacaggttc caggaacttg gtctggagaa gggttggggt gattgcgcta 60

agcgtgcaca ggagactatc cacctcctct tgggactcct ggaagcccca gaatcggtca 120

acctggagaa gttccctgga acgattccca tgggtgttcaa tggcggtaac ctctcccctc 180

atgggtactt cgctcaagct aatgtcctgg ggt 213

<210> 886

<211> 230

<212> DNA

<213> Zea mays

<400> 886

ctcgtgatcg ttgccggtga ccacggcaag gagtccaagg acatggagga gcaggcggag 60  
 ttcaagaaga tgtacagcct catcgacgcy tacaagttga agggccatat ccggtggatc 120  
 tcggcgcaga tgaaccgcgt ccgcaacggg gagctgtacc gctacatttg cgatacgaag 180  
 ggcgcatctg tgcagcctgc gttctacgaa gcgttcggcc tgactgtgat 230

<210> 887  
 <211> 227  
 <212> DNA  
 <213> Zea mays

<220>  
 <221> unsure  
 <222> (1)..(227)  
 <223> unsure at all n locations

<400> 887

gacaagtgcc agccggacga ngccactgga gcaagatctc ccagggcggg ctccagcgta 60  
 tcgaggagaa gtacacctgg aagctgtact cggagaggct gatgaccctc accggcgtgt 120  
 acgggttctg gaagtacgtg tccaacctgg agaggcgcga gaccggcggt tacctggaga 180  
 tgctgtacgc gctcaagtac cgcaccatgg cgagcacctg gccgctg 227

<210> 888  
 <211> 231  
 <212> DNA  
 <213> Zea mays

<400> 888

cccacgcgtc cgcttgga aattcgacag ccagtaccac ttctcttgcc agttcacagc 60  
 tgaccttatt gccatgaacc acaccgattt catcatcacc agcacattcc aagaaatcgc 120  
 gggaagcaag gacaccgtgg ggcagtacga gtccacatc gcgttcactc ttctggggct 180  
 ctaccgtgtc gtccatggca tcgatgtttt cgatcccaag ttcaacattg t 231

<210> 889  
 <211> 248  
 <212> DNA  
 <213> Zea mays

<400> 889

ctcgatggcg cgtctcgaga agatgatcgg cttcttcttg atggcgcgtc tcgaccgcgt 60

gaagaacatg acaggcctgg tggagatgta cggcaagaac gcgcgcctga gggagctggc 120  
gaacctcgtg atcgtcgccg gtgaccacgg caaggagtcc aaggacaggg aggagcaggg 180  
ggagttcaag aagatgtaca gcctcatcga cgagtacaag ttgaagggcc atatccggtg 240  
gatctcgg 248

<210> 890  
<211> 227  
<212> DNA  
<213> Zea mays

<400> 890

gaatcgttcg caagtggatc tgcgatttg aagtctggcc gtacctggag acttacactg 60  
atgacgtggc gcatgagatt gctggagagc ttcaggccaa tcttgacctg atcattggaa 120  
actacagtga cggaaacctt gttgcgtgtt tgctcgccca caagatgggt gttactcact 180  
gtaccattgc ccatgcgctt gagaaaacta agtaccctaa ctccgac 227

<210> 891  
<211> 295  
<212> DNA  
<213> Zea mays

<400> 891

gttctagatc gcgagcagcc gccctttttt tttttttttt ttttcaggaa aagggtccca 60  
aggccactac gattattatt caaggagcaa catcccatcc aggaaacaaa gggagcacca 120  
caccogactg cacacacacc accaccacca ccgttccttc tcaaccgacg caacgcaaac 180  
tactaacagt ccatcagact actaaaagcg acaccgggat caatgatgga acaagacctt 240  
gacaaggtag gtaaatttaa ctcttgaagc aaagagcagc aacgaacgcc cgccg 295

<210> 892  
<211> 225  
<212> DNA  
<213> Zea mays

<400> 892

ttcggcacga gacaagatct cacagggcgg cctgcagaga atctatgaga agtacacctg 60  
gaagctctac tccgagagge tgatgacct gaccggcgtg tacgggttct ggaagtacgt 120

gagcaacctg gagaggcgcg agaccgcgcg ctacatcgag atgttctacg ccctgaagta 180  
ccgtagcctg gcaagccagg ttccgctgtc cttcgattag tacgg 225

<210> 893  
<211> 245  
<212> DNA  
<213> Zea mays

<400> 893

gggagacaat gttgaacttg ggatcgaaaa ccgacaagag actcactggc ttcgatcctg 60  
aaatcgagga gctcatcaac agcgacgtcg agaactccga gcacaagttc gtgctgaagg 120  
acaagaagaa gccgatcatc ttctcgatgg cgcgtctcga ccgcgtgaag aacatgacag 180  
gcctgggtgga gatgtacggc aagaacgcgc gcctgaggga gctggcgaac ctcgtgatcg 240  
tcgcc 245

<210> 894  
<211> 221  
<212> DNA  
<213> Zea mays

<400> 894

acggaaaccg acaagagact cactgccttc catcctgaaa tcgaggagct catcaacagc 60  
gacgtcgaga actccgagca caagtctgtg ctgaaggaca agaagaagcc gatcatcttc 120  
tcgatggcgc gtctcgaccg cggaagaaca tgacaggcct ggtggagatg tacggcaaga 180  
acgcgcgcct gagggagctg gcgaacctcg taatcgtcgc g 221

<210> 895  
<211> 247  
<212> DNA  
<213> Zea mays

<400> 895

aatttaccta ccttgtcaag gtcttgttcc atcattgacg cgggtgtcgc ttttttagta 60  
gtctgatgga ctgttagtag tttgcgttgc gtcggttgag agggaacgtt ggtggtggtg 120  
gtgtgtgtgc agtcaggcgt ggtgtccctt ttgtttcctg gatgggatgt tgctccttga 180  
ataataatcg tagtggcctt ggagcccttt tcctgaaaaa aaacaaaaag agagttggag 240

atgagga 247

<210> 896  
<211> 254  
<212> DNA  
<213> Zea mays

<400> 896

gaggattaag cagcaaggcc ttgatacact ccgaagatcc tcattgttac caggctgttg 60  
cctgatgctg ctgggactac gtgcggtcag cggctggaga aggtcattgg tactgagcac 120  
acagacatca ttcgcgttcc gttcagaaat gagaatggca tcctccgcaa gtggatctct 180  
cgttttgatg tctggccata cctggagaca tacactgagg atgtttccag tgaaataatg 240  
aaagaactgc aggc 254

<210> 897  
<211> 229  
<212> DNA  
<213> Zea mays

<400> 897

cccacgcgtc cgcccacgcg tccgcttccc gtacaccgag tcgcacaaga ggctgacctc 60  
ccttcacccg gagattgagg agctcctgta cagccaaacc gagaacacgg agcacaagtt 120  
cgttctgaac gacaggaaca agccaatcat cttctccatg gctcgtctcg accgtgtgaa 180  
gaacttgact gggctggtgg agctgtacgg ccggaacaag cggctgcag 229

<210> 898  
<211> 221  
<212> DNA  
<213> Zea mays

<400> 898

cggacgctgg tgtagcgcta agcgtgcaca ggagactatc cacctcctct tggacctcct 60  
ggaggcccca ccatccgtcc accctggaga agttccttgg aacgatcccc atgggtgttca 120  
atgtcgttat cctctcccct catggttact tcgctcaagc taatgtcttg ggttaccctg 180  
acaccggagg ccaggttgtc tacatcttgg atcaagtgcg c 221



<210> 899  
 <211> 224  
 <212> DNA  
 <213> Zea mays

<400> 899

cgcgtccgca acggcgagct gtaccgctac atctgcgaca ccaagggcgc cttcgtgcag 60  
 cctgctttct acgaggcttt cgggctgacg gtggttgagg ccatgacctg cggcctgccc 120  
 acgtttgcc aagcctacgg cggtcgggcc gagatcatcg tgcacggcgt gtctggctac 180  
 cacatcgacc cttaccaggg cgacaaggcg tcggccctgc tcgt 224

<210> 900  
 <211> 220  
 <212> DNA  
 <213> Zea mays

<400> 900

acggaaaccg acaagagact cactgccttc catcctgaaa tcgaggagct catcaacagc 60  
 gacgtcgaga actccgagca caagtctgtg ctgaaggaca agaagaagcc gatcatcttc 120  
 tcgatggcgc gtctcgaccg cggaagaaca tgacaggcct ggtggagatg tacggcaaga 180  
 acgcgcgcct gagggagctg gcgaacctcg tgatcgctcg 220

<210> 901  
 <211> 252  
 <212> DNA  
 <213> Zea mays

<400> 901

agacgagtcc cacattcctg ggctctaccg tgctgtccat ggcacgatg ttttcgatcc 60  
 caagttcaac attgtctccc ctggagcaga catgagtgtt tactaccctg atacggaaac 120  
 cgacaagaga ctactgcct tccatcctga aatcgaggag ctcatctaca gcgacgtcga 180  
 gaactccgag caagtcgtga aggacaagaa gaagccgatc atcttctcga tggcgcgtct 240  
 cgaccgcgtg ag 252

<210> 902  
 <211> 253  
 <212> DNA  
 <213> Zea mays

<400> 902

cccacgcgtc cgcccacgcg tcagccacgc gtccgcccac gcgtccgcat cgtgtctcct 60  
ggcgcggaacc tgtccatcta cttcccgtac accgagtcgc acaagaggct gacctccctt 120  
caccgcggaga ttgaggagct cctgtacagc caaaccgaga acacggagca caagttcgtt 180  
ctgaacgaca ggaacaagcc aatcatcttc tccatggctc gtctcgaccg tgtgaagaac 240  
ttgactgggc tgg 253

<210> 903

<211> 228

<212> DNA

<213> Zea mays

<400> 903

aagatactca ctgccttcca tcctgaaatc gaggagctcg tctacagcga cgtcgagaac 60  
tccgagcaca agttcgtgct gaaagacaag aagaagccga tcatcttctc gatggcgcggt 120  
ctcgaccgcg tgaagaacat gacaggcctt gtcgagatgt acggcaagaa cgcgcgcctg 180  
agggagctgg cgaacctcgt gatcgttgcc ggtgaccacg gcaaggag 228

<210> 904

<211> 197

<212> DNA

<213> Zea mays

<400> 904

cccgtaacac gagtcgcaca agaggctgac ctcccttcac ccggagattg aggagctcct 60  
gtacagccaa accgagaaca cggagcacao gttcgttctg aacgacagga acaagccaat 120  
catctttctcc atggctcgtc tcgaccgtgt gaagaacttg actgggctgg tggagctgta 180  
cggccggaac aagcggc 197

<210> 905

<211> 310

<212> DNA

<213> Zea mays

<220>

<221> unsure

<222> (1) .. (310)

<223>        unsure at all n locations

<400>        905

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cgctcaagta cgcacccatg gcgagcaccg tgccgctggc cgtggaggga gagccctcca   60
gcaagtgatg cgcgacggcg gccacagacc tgatcgatcg atgagcgana gggagcactc  120
ggagtgtcga gtcttttccc ttgccatttc tttctttttt tcccttcccg gaggcgaaaa  180
aaaagagtct gcttttgcta ggctgcgggc gttcgttgct gctctttgct tcaagagtta  240
aatttaccta ccttgtcaag gtcttgttcc atcattgatc cgggtgtcgc ttttttagta  300
gtctgatgga                                     310
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<210>        906

<211>        237

<212>        DNA

<213>        Zea mays

<400>        906

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gaacagaaaa cggaatcggt cgcaagtgga tctcgcgatt tgaagtctgg ccgtacctgg   60
agacttacac tgatgacgtg gcgcatgaga ttgctggaga gcttcaggcc aatcctgacc  120
tgatcatcgg aaactacagt gacggaaacc ttgttgctg tttgctcgcc cacaagatgg  180
gtgttactca ctgtaaccat tgccatgcgc ttgagaaaac taagtaccct aactccg     237
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<210>        907

<211>        266

<212>        DNA

<213>        Zea mays

<400>        907

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cgacaaggcc tgcagagaat ctatgagaag tacacctgga agctctactc cgagaggctg   60
atgaccctga ccggcgtgta cgggttctgg aagtacgtga gcaacctgga gaggcgcgag  120
acccgccgct acatcgagat gttctacgcc ctgaagtacc gtagcctggc aagccagggt  180
ccgctgtcct tcgattagta cggggaaaga agaagaagaa gaagcccagg ccggagaacc  240
atcgctgca tttcgatctg tttcac                                     266
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<210>        908

<211>        252

<212>        DNA

<213> Zea mays

<400> 908

caaagtcctt ggcaccgagc actgccatat ccttcgcgtg ccattcacta cagtgaacgg 60  
aatcggttcgc tagtggatct cgcgatttga agtctggccg tacctggaga cttacactga 120  
cgacgtggcg catgagatta ctggagagcg acaggccaat cctgacctga ccatcgga 180  
ctacagtgc ggaaccttg ttgctggtt gctcgacgac aagatgggcg ttactcactg 240  
tacaattgcc ca 252

<210> 909

<211> 252

<212> DNA

<213> Zea mays

<400> 909

gcaccatggc gagcaccgtg ccgctggccg tggagggaga gccctccagc aagtgatgcg 60  
cgacggcgcc cacagacctg atcgatcgat gagcgagagg gagcactcgg agtgtcgtgt 120  
cttttccctt gccatttctt tcttttttcc ccttcccga agcgaaaaaa agagtctgct 180  
tttgtaagcg gcgggcgttc gttgctgctc tttgcttcaa gagtttaa at ttacctacct 240  
tgtcaaaggc ct 252

<210> 910

<211> 240

<212> DNA

<213> Zea mays

<400> 910

ctcgagcgaa tcggctcacg gctcgagtgg ctacttcgct cagtccaatg tgattggata 60  
ccctgacact agcggtcagg atgtgtacat tctggatcag gtccgtgctt tggagaatga 120  
gatgcttctg aggattaagc agcaaggcct tgatatcact ccgaagatcc tcattgttac 180  
caggctgttg cctgatgctg ctgggactac gtgcggtcag cggctggaga aggtcatggc 240

<210> 911

<211> 264

<212> DNA

<213> Zea mays

<400> 911

cggacgcgtg gcgacgcgt gggcgacgc gtgggcaagt tcgtgctgaa ggacaagaag 60

aagccgatac atcttctcga tggcgctct cgaccgcgtg aagaacatga caggcctggt 120

ggagatgtac ggcaagaacg cgcgcctgag ggagctggcg aacctcgtga tcgtcgccgg 180

tgaccacggc aaggagtcca aggacagga ggagcaggcg gagttcaaga agatgtacag 240

cctcatcgac gagtacaagt tgaa 264

<210> 912

<211> 216

<212> DNA

<213> Zea mays

<220>

<221> unsure

<222> (1)..(216)

<223> unsure at all n locations

<400> 912

gcgttgtcca cggcattgat gtgttcgacc ccaagttcaa catcgtgtct cctggcgcg 60

acctgtccat ctacttcccg tacaccgagt cgcacaagag gctgacctcc cttcacccgg 120

agattgagga gctcctgtac agccaaaccg agaacangga gcacaagttc gttctgaang 180

acaggaacan gcnatcatct tctcgatggc ncgtng 216

<210> 913

<211> 215

<212> DNA

<213> Zea mays

<400> 913

acagctgcaa aggtaagcac taggatgctg ctcttatttc aggaaaaggg ctccaaggcc 60

actacgatta ttattcaagg agcaacatcc catccaggat acaaaggag caccacgcct 120

gactgcacac acaccagcac caccaacgtt ccctctcaac cgacgcaacg caaactacta 180

acagtcctac agactactaa aaaagcgaca cccgg 215

<210> 914

<211> 202

<212> DNA

<213> Zea mays

<400> 914

agcgatggca acctagtcgc cactctgctc ggcacaaagt tgggagtcac tcagtgtacc 60  
atcgctcatg ccttggagaa aaccaaatac cccaactcgg acatatactt ggacaaattc 120  
gacagccagt accacttctc ttgccagttc acagctgact tattgccatg aaccacaccg 180  
atttcatcat caccagcaca tt 202

<210> 915

<211> 197

<212> DNA

<213> Zea mays

<400> 915

ccttccaaga gatcgccgga aacaaggaca ccgtcggcca gtacgagtcac cacatggcgt 60  
tcacaatgcc tggcctgtac cgcgttgctc acggcattga tgtgttcgac cccaagttca 120  
acatcgtgtc tcttggcgcg gacctgtcca tctagttccg gtacacggag tcgcacaaga 180  
ggctgacttc ctttcac 197

<210> 916

<211> 234

<212> DNA

<213> Zea mays

<400> 916

cccacgcgtc cggcgcggac ctgtccatct acttcccgtc caccgagtcg cacaagaggc 60  
tgacctccct tcacccggag attgaggagc tctgttacag ccaaaccgag aacacggagc 120  
acaagttcgt tctgaacgac aggaacaagc caatcatctt ctccatggct cgtctcgacc 180  
gtgtgaagaa cttgactggg ctggtggagc tgtacggccg gaacaagcgg ctgc 234

<210> 917

<211> 252

<212> DNA

<213> Zea mays

<220>

<221> unsure

<222> (1)..(252)

<223> unsure at all n locations

<400> 917

atncagcgcct cgagccgctc gagcgcctcac ttctcgatgg cgcgtctcga ccgcgtgaag 60

cccatgacag gactggacga gatgtacggc aagaacgcgc gcctgaggga gctggcgaac 120

ctcgtgatcg ttgccggtga ccacggcaag gagtccaagg acaggaggga gcaggcggag 180

ttcaagaaga tgtacagcct catcgacgag tacaagttga agggccatat ccggtggatc 240

tcggcgcaga tg 252

<210> 918

<211> 249

<212> DNA

<213> Zea mays

<400> 918

gcgcgcctga gaggagctgg cgaacctcgt gatcgttgcc ggtgaccacg gcaaggagtc 60

caaggacatg gaggagcagg cggagttcaa gaagatgtac agcctcatcg acgagtacaa 120

gttgaagggc catatccggt ggatactcgg cgcagatgaa ccgcgtccgc atacgggagc 180

tgtaccgcta catttgcat acgaagggcg cattcgtgca gcctgcgttc tacgaagcgt 240

tcggcctga 249

<210> 919

<211> 277

<212> DNA

<213> Zea mays

<400> 919

aggacaccgt ggggcagtac attccaactt cgggttccact ctctctgggg ctctaccgtg 60

tcgtccatgg catcgatggg ttcatccca agttcaacat tgtctccctt ggagaagaca 120

tgagtgttta ctaccgatat agggaaacgg acaagagatt cactgccttc catcctgaaa 180

tcgaggtgct catctacagc gacgtcgaga actccgagca caagttcgtg ctgaaggaca 240

agaagaagcc gatcatcttc tcgtggcgcg tctcgac 277

<210> 920

<211> 190

<212> DNA

<213> Zea mays

<400> 920

gatcgagtcc atgacgtgcg gtctgccaac gatcgcgacc tgccatggtg gccctgctga 60

gatcatcgtg gacggggtat ctggcctgca cattgaccct taccacagcg acaaggccgc 120

ggatatcctg gtcaacttct ttgacaaatg caaggcagat ccgagctact gggacaagat 180

ctcagagggc 190

<210> 921

<211> 218

<212> DNA

<213> Zea mays

<400> 921

cccacgcgtc cgcccacgcg tccgccacg cgctccgaaac caaatacccc aactcggaca 60

tctacttgga caagttcgac agccagtacc acttctcttg ccagttcaca gctgacctta 120

ttgccatgaa ccacactgat ttcacatca ccagcacatt ccaagaaatc gcgggaagca 180

aggacaccgt ggggcagtac gagtcccaca tcgcgttc 218

<210> 922

<211> 180

<212> DNA

<213> Zea mays

<400> 922

gtgtttacta cccgtatacg gaaaccgaca agagactcac tgccttccat cctgaaatcg 60

aggagctcat ctacagcgac gtgcgagaact ccgagcacia gttcgtgctg aaggacaaga 120

agaagccgat atcttctcga tggcgcgtct cgaccgcgtg aagaacatga caggcctggt 180

<210> 923

<211> 239

<212> DNA

<213> Zea mays

<400> 923

atcgagcgct cgagcgctcg aggctcgagt tctcgatgac gcgtctcgac cgcataaaga 60

acatgacagg cctggatcag atgaccggca agaacgcgcg cctgaggagg ctggcgaacc 120

tcgtgatcgt tgccggtgac cacggcaagg agtccaagga caggaggagg caggcggagt 180



tcaagaagat gtacagcctc atcgacgagt acaagttgaa gggccatata cggtggatc 239

<210> 924  
<211> 176  
<212> DNA  
<213> Zea mays

<400> 924

cgggcgacaa ggcgtcggcc ctgctcgtgg acttcttcga caagtgccag gcggacccga 60

gccactggag caagatctcc cagggcgggc tccagcgat cgaggagaag tacacctgga 120

agctctactc ggagaggctg atgacctca ccggcgtgta cgggttctgg aagtac 176

<210> 925  
<211> 220  
<212> DNA  
<213> Zea mays

<400> 925

ggcggcgggc gttcgttgct gctctttgct tcaagagtta aatttaccta ccttgtcaag 60

gtcttgttcc atcattgata cgggtgtcgc ttttttagta gtctgatgga ctgttagtag 120

tttgcgttgc gtcggttgag agggaacgtt ggtggtggtg gtgtgtgtgc agtcaggcgt 180

ggtgctccct ttgtttctg gatgggatgt tgctccttga 220

<210> 926  
<211> 204  
<212> DNA  
<213> Zea mays

<400> 926

atctccgcc agcgcaacgg cgagctgtac cgctacatct gcgacaccaa gggcgcttc 60

gtgcagcctg ctttctacga ggctttcggg ctgacggtgg ttgaggccat gacctgcggc 120

ctgcccacgt tcgccaccgc ctacggcggt ccggccgaga tcatcgtgca cggcgtgtct 180

ggctaccaca tatctccagg gcga 204

<210> 927  
<211> 203  
<212> DNA  
<213> Zea mays

<400> 927

cggacgcgtg gctgaatttc accacaggtt ccaggaactt ggtctggaga agggttggag 60

gtgattgcgc taagcgtgca caggagacta tccacctcct ctggacctc ctggaggccc 120

cagatccgtc caccctggag aagttccttg gaaggttccc cagggtgttc gatggcggaa 180

tcctctcccc tcgtggttac tgc 203

<210> 928

<211> 165

<212> DNA

<213> Zea mays

<400> 928

ccgacctcta ctggaagaag tttgaggatc actaccactt ctcgtgccag ttcaccactg 60

acttgattgc aatgaaccat gccgacttca tcatcaccag taccttccaa gagatcgccg 120

gaaacaagga caccgtcggc cagtacgagt cacacatggc gttca 165

<210> 929

<211> 175

<212> DNA

<213> Zea mays

<400> 929

ctggaagaag tttgaggatc actaccactt ctcgtgccag ttcaccactg acttgattgc 60

aatgaaccat gccgacttca tcatcaccag taccttccaa gagatcgccg gaaacaagga 120

caccgtcggc cagtacgagt cacacatggc gttcacaatg ctggcctgta cgggt 175

<210> 930

<211> 166

<212> DNA

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tcctggga 188

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aaggtcattg gtactgagca cacagacatc attcgcgttc cgttcagaaa tgagaatggc 120

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gtactgtatt ggagttatgt gtacttggtt tccaagaact ttggttcctt ctcgtttttt 180

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<211> 136

<212> DNA

<213> Zea mays

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cgtgtctggg taccac 136

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tcagctgctt gcggagtttg atgccctggt tgatagtgc aaggagaagt atgcaccctt 240

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tggaggagct gagtgtttct gagtacttgg cattcaagga acagctgggt gatggacaat 240

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<212> DNA

<213> Zea mays

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cagctgcttg cggagtttga tgccctgttt gatagtgcaca aggagaagta tgcacccttt 240

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atc 303

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<211> 262  
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 aagacatcct cgtgctgc 258

<210> 985  
 <211> 243  
 <212> DNA  
 <213> Zea mays

<400> 985

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ctccccccat gggttgcaact tgctatcagg ccaaggcctg gtgtctggga ttacattcgg 120

gtgaatgtaa gtgagctggc tgtgggagag ctgagtgttt ctgagtactt ggcattcaag 180

gaacagctgg tggatggaca atccaacagc aactttgtgc ttgagcttga ttttgagccc 240

ttc 243

<210> 986

<211> 247

<212> DNA

<213> Zea mays

<400> 986

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aatgaactga tagcactctt ttccaggtat gttcaccagg gcaagggact gcttcagcgc 180

catcagctgc ttgcggagtt tgatgccctg tttgcatatg acaggagcag tatgcaccct 240

ttgaaga 247

<210> 987

<211> 211

<212> DNA

<213> Zea mays

<400> 987

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tccacagtca tcgcaacgc cttggtgcc. ctttctctc ccateccaat gaactgatag 120

cactcttttc caggtatggt caccagggca tgggaatgct tcagcgccat cagctgcttg 180

cggagtttga tgccctgttt catagtgaca c 211

<210> 988

<211> 150

<212> DNA

<213> Zea mays

<400> 988

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aagctgactc gcctccacag tcttcgcgac cgtcttggtg ccaccttctc ctcccatccc 120  
aatgaactga tagcactctt ttccaggtat 150

<210> 989  
<211> 128  
<212> DNA  
<213> Zea mays

<400> 989

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agctgactcg cctccacagt cttcgcgaac gccttggtgc caccttctcc tcccatccca 120  
atgaactg 128

<210> 990  
<211> 125  
<212> DNA  
<213> Zea mays

<400> 990

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gccaaactga ctgcctcca cagtcttcgc gaacgccttg gtgccacctt ctctcccat 120  
cccaa 125

<210> 991  
<211> 116  
<212> DNA  
<213> Zea mays

<400> 991

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aagctgactc gcctccacag tcttcgcgaa cggcttggtg ccaccttctc ctccca 116

<210> 992  
<211> 298  
<212> DNA  
<213> Zea mays

<400> 992

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 aggcttgagg atccaggaag aggacagcaa tgggggaagg tgcaggtgac cgtgtcctga 180  
 gccgcctcca cagcgtcagg gagcgcattg gcgactcact ctctgccaca cccaatgagc 240  
 ttgtcgccgt ctttcacagg ctgaaaaacc tttggaaagg tatgctgcag cccaccag 298

<210> 993  
 <211> 291  
 <212> DNA  
 <213> Zea mays

<400> 993

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 tccaggaaga ggacagcaat gggggaagg tgcaggtgacc gtgtcctgag ccgcctccac 180  
 agcgtcaggg agcgcattgg cgactcactc tctgcccacc ccaatgagct tgtcgccgtc 240  
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<210> 994  
 <211> 263  
 <212> DNA  
 <213> Zea mays

<400> 994

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 caggtgaccg tgtcctgagc cgcctccaca gcgtcaggga gcgcattggc gactcactct 120  
 ctgcccaccc caatgagctt gtgcgccgtc taccagggt gaaaaacctt ggaaagggtg 180  
 tgctgcagcc ccaccagatc attgccgagt acaacaatgc gatccctgag gctgagcgcg 240  
 agaagctcaa ggatggtgct ttt 263

<210> 995  
 <211> 267  
 <212> DNA  
 <213> Zea mays

<400> 995

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gttctctcct ctcccttggga ttggaggtcc ctcccttcttc tcctctctct ctcagaggaa 120  
ggcctgagga tccaggaaga ggacagcaat gggggaaggt gcaggtgacc gtgtcctgag 180  
ccgcctccac agcgtcaggg agcgcattgg cgactcactc tctgcccacc ccaatgagct 240  
tgtcgccgtc ttcaccaggc tgaaaaa 267

<210> 996  
<211> 266  
<212> DNA  
<213> Zea mays

<400> 996

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tgcgtttcct tggacgggct tgttctctcc tctcctttgg attggaggtc cctccttctt 120  
ctcctctctc tctcagagga aggcctgagg atccaggaag aggacagcaa tgggggaagg 180  
tgcaggtgac cgtgtcctga gccgcctcca cagcgtcagg gagcgcattg gcgactcact 240  
ctctgcccac cccaatgagc ttgtcg 266

<210> 997  
<211> 303  
<212> DNA  
<213> Zea mays

<400> 997

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aggacagcaa tgggggaagg tgcaggtgac cgtgtcctga gccgcctcca cagcgtcagg 180  
gagcgcattg gcgactcact ctctgcccac cccaatgagc ttgtcgccgt cttcaccagg 240  
ctgaaaaacc ttggaaatgg tatgctgcag ccccaccaga tcattgccga gtacaacaat 300  
gcg 303

<210> 998  
<211> 229  
<212> DNA  
<213> Zea mays

<400> 998

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tctccttttg attggaggtc cctccttctt ctctctcttc tctcagagga aggcctgagg 120

atccaggaag aggacagcaa tgggggaagg tgcaggtgac cgtgtcctga gccgcctcca 180

cagcgtcagg gagcgcattg gcgactcact ctctgcccac cccaatgag 229

<210> 999

<211> 298

<212> DNA

<213> Zea mays

<400> 999

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agaggaaggc ctgatgatcc aggaagacga cagcaatggg ggaagggtgca ggtgaccgtg 120

tcctgagccg cctccacagc gtcagggagc gcattggcga ctactctctt gccaccccca 180

atgagcttgt cgccgtcttc accaggctga aaaaccttgg aaagggtatg ctgcagcccc 240

accagatcat tgccgagtac aacaatgcga tccctgaggc tgagcgcgag aagctcaa 298

<210> 1000

<211> 257

<212> DNA

<213> Zea mays

<400> 1000

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ggggattggt ctctcctctc ctttggattg gaggtccctc cttcttctcc tctctctctc 120

agaggaaggc ctgaggattc aggaagagga cagcaatggg ggaagggtgca ggtgaccgtg 180

tcctgagccg cctccacagc gtcagggagc gcattggcga ttcatTTTTT gccaacccca 240

ttaaccttgt cgcggtt 257

<210> 1001

<211> 292

<212> DNA

<213> Zea mays

<400> 1001

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tctcctctgg cctccgaggt cgctccttct tctcctctct ctctcagagg aaggcctgac 120  
gatgcaggaa gaggacagca atgggggaac gtgcagggtga ccgtgtcctg agccgcctcc 180  
acagcgtcat ggagcgcatt ggcgactcac tctctgcgca cccaatgag cttgtcgccg 240  
tcttcaccag gcgaaaaaag cttggaaagg gtatgctgca gccgcaccag at 292

<210> 1002  
<211> 220  
<212> DNA  
<213> Zea mays

<400> 1002

cccacgcgtc cggcgttgcg tttccttgga ggggattggt ctctcctctc ctttggattg 60  
gaggtccttc cttcttctcc tctctctctc agaggaaggc ctgaggatcc aggaagagga 120  
cagcaatggg ggaagggtgca ggtgaccgtg tcttgagccg cctccacagc gtcagggagc 180  
gcattggcga ctactctct gcccaccca atgagcttgt 220

<210> 1003  
<211> 125  
<212> DNA  
<213> Zea mays

<400> 1003

cccacgcgtc cgcgcctcca cagcgtcagg gagcgcattg gcgactcact ctctgcccac 60  
cccaatgagc ttgtcgccgt cttcaccagg ctgaaaaacc ttggaaaggg tatgctgcag 120  
cccca 125

<210> 1004  
<211> 127  
<212> DNA  
<213> Zea mays

<400> 1004

cccacgcgtc cgatttgatt tgcgttcact gcgttgcggt tcttggagg ggattgttct 60  
ctcctctcct ttggattgga ggtccctcct tcttctccgc tctctctcag aggaatgcct 120  
agggatc 127

<210> 1005  
 <211> 188  
 <212> DNA  
 <213> Zea mays

<220>  
 <221> unsure  
 <222> (1)..(188)  
 <223> unsure at all n locations

<400> 1005

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 tgtttctcaac tctcctttgg attggagggtc cctccttctt ctctctcttc tctcagagga 120  
 aggcctgagg atccaggaag aggacagcaa ttggggaagg tgcaggtgac cgtgtcctga 180  
 gccgcctc 188

<210> 1006  
 <211> 123  
 <212> DNA  
 <213> Zea mays

<400> 1006

atttgcggttc acagcggttgc gtttccttgg aggggattgt tctcacctct cctttggatt 60  
 ggaggaccct ccttcttctc ctctctctct cagaggaagg cctgaggatc caggaagagg 120  
 aca 123

<210> 1007  
 <211> 104  
 <212> DNA  
 <213> Zea mays

<400> 1007

tgcaggtgac cgtgtcctga gccgcctcca cagcgtcagg gagcgcattg ggcactcact 60  
 ctctgcccac cccaatgagc ttgtcgcgtc ttcaccaggc tgaa 104

<210> 1008  
 <211> 106  
 <212> DNA  
 <213> Zea mays

<400> 1008



tgcaggtgac cgtgtcctga gccgcctcca cagcgtcagg gagcgcattg gcgactcatt 60  
 ctctgcacac cccaatgagc ttgtcgcgtc ttcaccaggc tgaaaa 106

<210> 1009  
 <211> 126  
 <212> DNA  
 <213> Zea mays

<400> 1009

gtttcagttc atcgattcag ttcttgcttg aggatccagg aagaggacag caatgggaga 60  
 acgtgcaggt gaccgtgtcc tgagccgcct ccacagcgtc aaggagcgca ttggcgactc 120  
 actctc 126

<210> 1010  
 <211> 242  
 <212> DNA  
 <213> Zea mays

<220>  
 <221> unsure  
 <222> (1)..(242)  
 <223> unsure at all n locations

<400> 1010

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 aactacctna actngtgngg gctgaccgtt gacgactact aaggagtcca aggacaggna 120  
 ggancangcn gagttcanga agatgtacan gctnatnnac tagtacaagt tgnanggcca 180  
 tatccggtgg atctnggctc acatgaacna ntttcncaat ngaaacctgt nccgttacat 240  
 aa 242

<210> 1011  
 <211> 229  
 <212> DNA  
 <213> Zea mays

<400> 1011

tctttgacaa atgcaaggca gatccgtgct actggtacaa gatctcacag ggcggcgtgc 60  
 acagaatcta tgagacgtac acctggaagc tctacttcga gaggtgatg accctgaccg 120

gogtgtacgg cttctggaag tacgtgagca tactgtagag gcacgagacc ctccgctaca 180  
 tegagatgta ctacgccttg aagcaccgga tcttggaag ccaggttcc 229

<210> 1012  
 <211> 455  
 <212> DNA  
 <213> Zea mays

<400> 1012

atgttattgt aaatatatta ttggaaggga agggtttgat catgcataga agttatgcta 60  
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 gctggtggat ggacaatcca acaacaactg tgtgcttgag cttgattagg agcccttcaa 180  
 tgcctacttt cctcgtcctt acatgtcgaa gtccatcgga catggaatgc aattccttaa 240  
 ccgacacctg tegtccaagt tgttccagga caaggagagt tcgtaccctt tgctgaactt 300  
 cctcaaggct cataactaca aaggccacga cgatgatgtt ggatgacaga attccaagcc 360  
 ttctgtggtct ccaatcatcc ctgaaaaagg cagaagagta tctactgagt gttccttaag 420  
 acactcccta ctcgaggttc aaccataggt tccaa 455

<210> 1013  
 <211> 178  
 <212> DNA  
 <213> Zea mays

<400> 1013

taaacaatga caccgtcggc cattacgagt cacacatggc gttcacaatg cctggcctgt 60  
 accgagtcgt ccgcggaatt gatgtgctct accccaagtt caacatcctg tcttctggcg 120  
 cggacctttc catctacttc ccgtacactg agtcgcacac aaagctgaac tgacttaa 178

<210> 1014  
 <211> 386  
 <212> DNA  
 <213> Zea mays

<400> 1014

gataagaatc atctttcttg aacacagaag gatgcactgc gcctgacctt actactcgac 60  
 tcagtcgacc atgccgactt gatcatcacc agtaccttcc aagagatcgc cggaaacaag 120

tacaccgtca ggcggtggtta ttacacatg gggttgacga tgcctggcct gtaccgactt 180  
 gccactgca ttgatgtctt ccaccacaag ctcaacatcg tgtctcctct cgcgcaccta 240  
 tccatctact taccgtacac ctactcgac aatacactga cctgccttca cccggagatt 300  
 gaggagctcc tgtacacaca atccgctaac actgagcaca acttcatact taacgactgg 360  
 atcaacccca tcatattcta catggc 386

<210> 1015  
 <211> 428  
 <212> DNA  
 <213> Zea mays

<400> 1015

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 gaatatctgg agcagggctg cagcgcatat acgagaagta cacatggaag atatactcag 120  
 agaggttgat gacactggcc ggggtctacg gtttctggaa gtacgtgtcg aagctcgaga 180  
 ggcgggagac gaggcgctac cttgagatgt tctacatact gaagttccgc gagctggcga 240  
 agaccgtgcc gcttgcaatt gaccaaccgc agtagcttgc gcaactgcga ctgcgtagca 300  
 cttggtacaa gactgaaacc tgaaggacct tcagtaattt aggcgcggca gacggtagcc 360  
 aataaaatgt gccggagctg aactggtttt tattatgtac ataatggcag tataacaaaa 420  
 ttactgaa 428

<210> 1016  
 <211> 485  
 <212> DNA  
 <213> Zea mays

<220>  
 <221> unsure  
 <222> (1)..(485)  
 <223> unsure at all n locations

<400> 1016

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 ctcgttccat ttaaccgcg tccgcgactg cgagctttac cgctacatct gcgacaccaa 180  
 tggcgccttc gtgcagcctg ctttctacga tgctttcggg cttactgtgg ttgaggccat 240

gacctgcggc ctgcccacgt ttgccacagc ctacggctgt cctgccgaga tcatcgtgca 300  
 cggcgtgtct ggctaccaca ttgaccctta ccagggcgac aaggcttttg cccttgctcg 360  
 tggacttttt tgacaagtgc catgcttact cctagccact ttgagcaaga tcttccatgg 420  
 ctggcttcaa cttatctagg agaaattccc ctggaaactt tactcttata agctttttac 480  
 cctta 485

<210> 1017  
 <211> 417  
 <212> DNA  
 <213> Zea mays

<400> 1017

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 gcccttttct tctccatggg tcccatcgat gtgtttttgt tcggttctct cgtcagatct 120  
 gtataaatag ggcctacct tctccgccat tctcgggtcc tgtgaagcgt ttcagttcat 180  
 cgattgagtt cttggatgcc tctagttgta ttgtgtgttt cttctttctg gtctatgtac 240  
 taggactata gtaccaggat ctgagtcgtt tttttttggg tcttgctcct gtctgccgtt 300  
 tctttccccc cttccagagt taggttctgt tgggttcttg cctgcaatat agtttcgtgg 360  
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<210> 1018  
 <211> 411  
 <212> DNA  
 <213> Zea mays

<220>  
 <221> unsure  
 <222> (1)..(411)  
 <223> unsure at all n locations

<400> 1018

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 agactcgaca gggatgaaga cataacgggg ctgggtogaag cttttgctaa gtgcgctaag 120  
 ctgagggagc tggtaaacct tgctgctcgt gccgggtaca atgatgtcaa caagtccaag 180  
 gacaggggaag agatcgcgga gatagagaag atgcatgaac tcatcaagac ncacaacttg 240

ttcgggagcgt ccgctggatc ctgccagaca acaggcccgt aacgcgagct ctatcgctac 300  
 atcgctgata ccaatgggtgc ttctgtacac ccgggcctct atgaagcggt cggtctcacc 360  
 gtcgttgagg ccatgnactg tgggcttcct actttcgca cgctccatgg a 411

<210> 1019  
 <211> 478  
 <212> DNA  
 <213> Zea mays

<400> 1019

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 aggacaccgt cggccgggtgc gagtcacaca tggcggttcac aatgcctggc ctgtaccgcg 120  
 ttgtccacgg cattgatgtg ttcgaccca agttcaacat cgtgtctcct ggcgcggacc 180  
 tgtccatcta cttcccgtac accgagtcgc acaagaggct gacctccctt caccgcgaga 240  
 ttgaggagct cctgtacagc caaacggaga acacggagca caagttcggt ctgaacgaca 300  
 ggaacaagcc aatcatcttc tccatggctc gtctcgaccg tgtgaagaac ttgactgggc 360  
 tgggtggagct gtacggccgg aacaagcggc tgcaggagct ggtgaacctc gtggtcgtct 420  
 gcggcgacca tggcaaccct tccaaggaca aggaggaaca ggccgagttc aagaagat 478

<210> 1020  
 <211> 469  
 <212> DNA  
 <213> Zea mays

<400> 1020

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 ctacatctgc gacaccaagg gcgccttcgt gcagcctgct ttctacgagg ctttcgggct 180  
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 ggccgagatc atcgtgcacg gcgtgtctgg ctaccacatc gacccttacc agggcgacaa 300  
 ggcgtcggcc ctgctcgtgg acttcttcga caagtgccag gcggaccga gccactggag 360  
 caagatctcc cagggcgggc tccagcgtat cgaggagaag tacacctgga agctctactc 420  
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<210> 1021  
 <211> 442  
 <212> DNA  
 <213> Zea mays

<400> 1021

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tggaaccta gtcgccactc tgctcgcgca caagttggga gtcactcagt gtaccatggc 60
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ccagtaccac ttctcttgcc agttcacagc tgaccttatt gccatgaacc acaccgattt 180
catcatcacc agcacattcc aagaaatcgc gggaagcaag gacaccgtgg ggcagtacga 240
gtccacatc gcgttcactc ttcttgggct ctaccgtgtc gtccatggca tcgatgtttt 300
cgatcccaag ttcaacattg tctcccctgg agcagacatg agtgtttact acccgtatac 360
ggaaaccgac aagagactca ctgccttcca tctgaaatc gaggagctca tctacagcga 420
cgtcgagaac tccgagcaca ag 442

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<210> 1022  
 <211> 441  
 <212> DNA  
 <213> Zea mays

<400> 1022

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cttggacaaa ttcgacagcc agtaccactt ctcttgccag ttcacagctg accttattgc 120
catgaaccac accgatttca tcatcaccag cacattccaa gaaatcgcgg gaagcaagga 180
cacctgtgggg cagtaacgagt cccacatcgc gttcactctt cctgggctct accgtgtcgt 240
ccatggcatc gatgttttcg atcccaagtt caacattgtc tcccctggag cagacatgag 300
tgtttactac ccgtatacgg aaaccgacaa gagactcact gccttccatc ctgaaatcga 360
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gaagccgatc atcttctcga t 441

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 <212> DNA  
 <213> Zea mays

<400> 1023

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cctgtaccgc gttgtccacg gcattgatgt gttcgacccc aagttcaaca tcgtgtctcc 120  
tggcgcgaggac ctgtccatct acttcccgtc caccgagtcg cacaagagge tgacctccct 180  
tcacccggag attgaggagc tcctgtacag ccaaaccgag aacacggagc acaagtctgt 240  
tctgaacgac aggaacaagc caatcatctt ctccatggct cgtctcgacc gtgtgaagaa 300  
cttgactggg ctggtggagc tgtacggccg gaacaagcgg ctgcaggagc tgggtgaacct 360  
cgtggctcgtc tgcggcgacc atggcaacct ttccaaggac aaggaggagc aggccgagtt 420  
caagaagatg tttgacctca tcgagcagta caa 453

<210> 1024

<211> 444

<212> DNA

<213> Zea mays

<400> 1024

ctgaaggaca agaagaagcc gatcatcttc tcgatggcgc gtctcgaccg cgtgaagaac 60  
atgacaggcc tggtcgagat gtacggcaag aacgcgcgcc tgaggagct ggcgaacctc 120  
gtgatcgttg ccggtgacca cggcaaggag tccaaggaca gggaggagca ggcggagtcc 180  
aagaagatgt acagcctcat cgacgagtac aagttgaagg gccatatccg gtggatctcg 240  
gcgagatga accgcgtccg caacggggag ctgtaccgct acatttgca tacgaagggc 300  
gcattcgtgc agcctgcgtt ctacgaagcg ttccggcctga ctgtgatcga gtccatgacg 360  
tgcggtctgc caacgatcgc gacctgccat ggtggccctg ctgagatcat cgtggacggg 420  
gtatctggcc tgcacattga ccct 444

<210> 1025

<211> 441

<212> DNA

<213> Zea mays

<400> 1025

caccgtgggg cagtacgagt cccacatcgc gttcactctt cctgggctgt accgtgtgat 60  
ccatggcatc gatgttttcg atcccaagtt caacattgtc tcccctggag cagacatgag 120

tgtttactac ccgtatacgg aaaccgacaa gagactcact gccttccatc ctgaaatcga 180  
 ggagctcatc tacagcgacg tcgagaactc cgagcacaag ttcgtgctga aggacaagaa 240  
 gaagccgatc atcttctcga tggcgcgtct cgaccgcgtg aagaacatga caggcctggg 300  
 cgagatgtac ggcaagaacg cgcgcctgag ggagctggcg aacctcgtga tcgttgccgg 360  
 tgaccacggc aaggagtcca aggacagga ggagcaagcg gagttcaaga agatgtacag 420  
 cctcatcgac gagtacaagt t 441

<210> 1026  
 <211> 380  
 <212> DNA  
 <213> Zea mays

<400> 1026

cgcattgagat tgctggagag cttcaggcca atcctgacct gatcatcgga aactacagtg 60  
 acggaaacct tggtgctgtg ttgctcgccc acaagatggg tggtactcac tgtaccattg 120  
 cccatgcgct tgagaaaact aagtacccta actccgacct ctactggaag aagtttgagg 180  
 atcaactacca cttctcgtgc cagttcacca ctgacttgat tgcaatgaac catgccgact 240  
 tcatcatcac cagtaccttc caagagatcg ccggaaacaa ggacaccgtc ggccagtacg 300  
 agtcacacat ggcgttcaca atgcctggcc tgtaccgcgt tgtccacggc attgatgtgt 360  
 tcgaccccaa gttcaacatc 380

<210> 1027  
 <211> 419  
 <212> DNA  
 <213> Zea mays

<400> 1027

cactgccttc catcctgaaa tcgaggagct catctacagc gacgtcgaga actccgagca 60  
 caagttcgtg ctgaaggaca agaagaagcc gatcatcttc tcgatggcgc gtctcgaccg 120  
 cgtgaagaac atgacaggcc tggtcgagat gtacggcaag aacgcgcgcc tgagggagct 180  
 ggcgaacctc gtgatcgttg ccggtgacca cggcaaggag tccaaggaca gggaggagca 240  
 ggcggagttc aagaagatgt acagcctcat cgacgagtac aagttgaagg gccatatccg 300  
 gtggatctcg gcgcagatga accgcgtccg caacggggag ctgtaccgct acatttgcca 360



tacgaagggc gcattcgtgc agcctgcgtt ctacgaagcg ttcggcctga ctgtgatcg 419

<210> 1028  
 <211> 437  
 <212> DNA  
 <213> Zea mays

<220>  
 <221> unsure  
 <222> (1)..(437)  
 <223> unsure at all n locations

<400> 1028

cccacgcgtc cggaaacctt gttgcgtggt tgctcgccca caagatgggt gttactcact 60  
 gtaccattgc ccatgcgctt gagaaaacta agtaccctaa ctccgacctc tactggaaga 120  
 agtttgagga tcactaccac ttctcgtgcc agttcaccac tgacttgatt gcaatgaacc 180  
 atgccgactt catcatcacc agtaccttcc aagagatcgc cggaaacaag gacaccgtcg 240  
 gccagtacga gtcacacatg gcgttcacaa tgcttggcct gtaccgcgtt gtccacggca 300  
 ttgatgtggt cgaccccaag ttcaacatcg tgtctcctgg cgcggaacctg tccatctact 360  
 tcccgtacac cgagtcgcac aagaggcttg acctcctttc acccgagaat gangagctcc 420  
 tgtacagcca aaccgag 437

<210> 1029  
 <211> 425  
 <212> DNA  
 <213> Zea mays

<400> 1029

cctgaacggg cacatccgct ggatctccgt ccagatgaac cggtcgcaa cggcgagggt 60  
 agcgctacat ctgcgacacc aagggcgcct tcgtgcagcc tgctttctac gaggctttcg 120  
 ggctgacggg ggttgaggcc atgacctgcg gcctgcccac gtttgccaca gcctacggcg 180  
 gtccggccga gatcatcgtg cacggcgtgt ctggctacca catcgaccct taccagggcg 240  
 acaaggcgtc ggccctgctc gtggacttct tcgacaagtg ccaggcggac ccgagccact 300  
 ggagcaagat ctcccagggc gggctccagc gtatcgagga gaagtacacc tggaagctct 360  
 actcggagag gctgatgacc ctcaccggcg tgtacgggtt ctggaagtac gtgtccaacc 420  
 tggag 425

<210> 1030  
 <211> 431  
 <212> DNA  
 <213> Zea mays

<400> 1030

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cgaccgtgtg aagaacttga ctgggctggt ggagctgtac ggccggaaca agcggctgcg 60
ggagctggtg aacctcgtgg tcgtctgcgg cgaccatggc aacccttcca aggacaagga 120
ggagcaggcc gagttcaaga agatgtttga cctcatcgag cagtacaacc tgaacgggca 180
catccgctgg atctccgccc agatgaaccg cgtccgcaac ggcgagctgt accgctacat 240
ctgcgacacc aagggcgccct tcgtgcagcc tgctttctac gaggctttcg ggctgacggt 300
ggttgaggcc atgacctgcg gcctgcccac gtttgccaca gcctacggcg gtccggccga 360
gatcatcggt cacggcgtgt ctggctacca catcgaccct taccagggcg acaaggcgtc 420
ggcctgctcg t 431
```

<210> 1031  
 <211> 512  
 <212> DNA  
 <213> Zea mays

<220>  
 <221> unsure  
 <222> (1)..(512)  
 <223> unsure at all n locations

<400> 1031

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agaaaaagtg tcngtgcctg caccgctcgc tanegcacta ctactgggtt ccaatatcgg 60
gggaggcgga cgcgttcgaa ctgatcgagc agtacaacct gaacgggcac atccgctgga 120
tctccgcca gatgaaccgg gtccgcaacg gcgagctgta ccgctacatc tgcgacacca 180
agggcgccct cgtgcagcct gctttctacg aggctttcgg gctgacggtg gttgaggcca 240
tgacctgcgg cctgcccacg tttgccacag cctacggcgg tccggccgag atcatcgtcg 300
acggcgtgtc tggctaccac atcgaccctt accagggcga caaggcgctg gccctgctcg 360
tggacttctt cgacaagtgc caggcggacc cgagccactg gagcaagatc tcccagggcg 420
ggctccagcg tatcgaggag aagtacacct ggaagctcta ctcgagagg ctgatgacct 480
```

tcaccggcgt gtacgggttc tgggagtacg tg

512

<210> 1032

<211> 419

<212> DNA

<213> Zea mays

<220>

<221> unsure

<222> (1)..(419)

<223> unsure at all n locations

<400> 1032

gacaaggaga gcatgtaccc cttgctcaac ttccttcgcg cccacaacta caaggggatg 60  
accatgatgt tgaacgaag aatccgcagt ctcaagtgtc tgcaagggtgc gctgaggaag 120  
gctgaggagc acctgtccac cctacaagct gatacccat actctgaatt tcaccacagg 180  
ttccaggaac ttggtctgga gaaggggttg ggtgattgcg ctaagcgtgc acaggagact 240  
atccacctcc tcttggaact cctggaggcc ccagatccgt ccacctgga gaagttcctt 300  
ggaacgatcc ccatggtggt caatgtcgtt atcctctccc ctcatggnta ctctgctcaa 360  
gctaattgtc tgggttaccc tgacaccgga ggccagggtg tctacatctt ggatcaagt 419

<210> 1033

<211> 421

<212> DNA

<213> Zea mays

<400> 1033

cccacgcgtc cggaaatcgc gggaaagcaag gacaccgtgg ggcagtacga gtcccacatc 60  
gcgttcaactc ttctggggt ctaccgtgtc gtccatggca tcgatgtttt cgatcccaag 120  
ttcaacattg tctccctgg agcagacatg agtgtttact accgtatac ggaaaccgac 180  
aagagactca ctgccttcca tctgaaatc gaggagctca tctacagcga cgtcgagaac 240  
tccgagcaca agttcgtgct gaaggacaag aagaagccga tcatcttctc gatggcgcgt 300  
ctcgaccgcg tgaagaacat gacaggcctg gtcgagatgt acggcaagaa cgcgcgctg 360  
agggagctgg cgaacctcgt gatcgttgcc ggtgaccacg gcaaggagtc caaggacagg 420  
g 421

<210> 1034  
 <211> 421  
 <212> DNA  
 <213> Zea mays  
  
 <400> 1034  
  
 cggacgcgtg ggagagtttg tacccttgc tgaacttcct caaggctcat aactacaagg 60  
 gcacgacgat gatgttgaat gacagaatcc aaagccttcg tggctctcaa tcatccctga 120  
 gaaaggcaga ggagtatcta ctgagtgttc ctcaagacac tccctactcg gagttcaacc 180  
 ataggttcca agagcttggt ttggagaagg gttgggggtga cactgcgaag cgtgtactcg 240  
 acacactcca cttgcttctt gaccttcttg aggccctga tcctgccaac ttggagaagt 300  
 tccttggaac tataccaatg atgttcaatg ttgttatact ttctcctcat ggctacttcg 360  
 ctcagtccaa tgtgcttgga taccctgaca ctggcggtca ggttgtgtac attctggatc 420  
 a 421

<210> 1035  
 <211> 379  
 <212> DNA  
 <213> Zea mays  
  
 <220>  
 <221> unsure  
 <222> (1)..(379)  
 <223> unsure at all n locations  
  
 <400> 1035  
  
 ggcgcattcg tgcagcctgc gttctacgaa gcgttcggcc tgactgtgat cgagtccatg 60  
 acgtgcggtc tgccaacgat cgcgacctgc catggtggcc ctgctgagat catcgtggac 120  
 ggggtatctg gcctgcacat tgacccttac cacagcgaca aggccgcgga taccctggtc 180  
 aacttctttg acaaattgcaa ggcagatccg agctactggg acaagatctc acagggcggc 240  
 ctgcagagaa tttatgagaa gtacacctgg aagctctact ccgagaggct gatgacctg 300  
 accggcgtgt acgggttctg gaagtacgtg agcaacctgg agaggcgcca gacccgncgc 360  
 tacatcgaga tggttctacg 379

<210> 1036  
 <211> 424  
 <212> DNA

<213> Zea mays

<400> 1036

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ctcattgtta ccaggctggt gcctgatgct gctgggacta cgtgcggtca gcggctggag 60
aaggtcattg gtactgagca cacagacatc attcgcgttc cgttcagaaa tgagaatggc 120
atcctccgca agtggatctc tcgttttgat gtctggccat acctggagac atacactgag 180
gatgtttcca gtgaaataat gaaagaaatg caggccaagc ctgaccttat cattggcaac 240
tacagcgatg gcaacctagt cgccactctg ctgcacaca agttgggagt cactcagtgt 300
accatcgctc atgccttgga gaaaaccaa taccccaact cggacatcta cttggacaag 360
ttcgacagcc agtaccactt ctcttgccag ttcacagctg accttattgc catgaaccac 420
actg 424
```

<210> 1037

<211> 447

<212> DNA

<213> Zea mays

<400> 1037

```
gacatgagtg tttactacco gtatacgga accgacaaga gactcactgc cttccatect 60
gaaatcgagg agtcatcta cagcgacgtc gagaactccg agcacaagtt cgtgctgaag 120
gacaagaaga agccgatcat cttctcgatg gcgcgtctcg accgcgtgaa gaacatgaca 180
ggcctggtgg agatgtacgg caagaacgcg cgctgaggg agctggcgaa cctcgtgac 240
gtcgccggtg accacggcaa ggagtccaag gacagggagg agcaggcgga gttcaagaag 300
atgtacagcc tcacgacga gtacaagttg aagggccata tccggtggat ctcggcgag 360
atgaaccgtg tccgcaacgg ggagctgtac cgctacattt gtgataccaa gggcgcatc 420
gtgcaacctg cgttctacga agcgttc 447
```

<210> 1038

<211> 409

<212> DNA

<213> Zea mays

<220>

<221> unsure

<222> (1)..(409)

<223> unsure at all n locations

<400> 1038

gtgcaacatt gtctcccttt agcatactga gtgtttacta cccgtatacg gaaaccgaca 60  
agagactcac tgccttccat cctgaaatcg aggagctcat ctacagcgac gtcgagaact 120  
ccgagcacaa gttcgtgctg aaggacaaga agaagccgat catcttctcg atggcgcgtc 180  
tcgaccgcgt gaagaacatg acaggcctgg tcgagatgta cggcaagaac gcgcgcctga 240  
gggagctggc gaacctcgctg atcgctgccg gtgaccacgg caaggagtcc aaggacaggg 300  
aggagcaagc ggagttcaag aagatgtaca gcctcatcga cgagtacaag ttgaaaggcc 360  
atatccggtg gatctcggcg cagatgaacc gcgtncgcaa cggggagct 409

<210> 1039

<211> 418

<212> DNA

<213> Zea mays

<400> 1039

atctcacagg gcggcctgca gagaatctat gagaagtaca cctggaagct ctactccgag 60  
aggctgatga ccctgaccgg cgtgtacggg ttctggaagt acgtgagcaa cctggagagg 120  
cgcgagaccc gccgctacat cgagatgttc tacgccctga agtaccgtag cctggcaagc 180  
caggttccgc tgtccttcga ttagtacggg gaaagaagaa gaagaagaag cccaggccgg 240  
agaaccatcg cctgcatttc gatctgtttc accgcaattc gcattgttag tcgtgtattg 300  
gagttatgtg tacttggttt ccaagaactt tggttccttc tcgttttttt tccttgtttg 360  
agcgtttttg ggcagcgctg gcctggttcc tagtatggtg ggaattggct gcaccttt 418

<210> 1040

<211> 439

<212> DNA

<213> Zea mays

<400> 1040

cccgtatacg gaaaccgaca agagactcac tgccttccat cctgaaatcg aggagctcat 60  
ggacagcgac gtcgagaact ccgagcacaa gttcgtgctg aaggacaaga agaagccgat 120  
catcttctcg atggcgcgtc tcgaccgcgt gaagaacatg acaggcctgg tggagatgta 180  
cggcaagaac gcgcgcctga gggagctggc gaacctcgctg atcgctgccg gtgaccacgg 240

caaggagtcc aaggacaggg aggagcatgc tgagttcaag aagatgtaca gcctcatcga 300  
cgagtacaag ttgaagggcc atatccggtg gatctcggcg cagatgaacc ggggccgcaa 360  
acgggagctg taccgctaca tttgtgatac caagggcgca ttccggcagc ctgcgttcta 420  
cgaagcgttc ggctgact 439

<210> 1041  
<211> 392  
<212> DNA  
<213> Zea mays  
<400> 1041

ctccgaagat cctcattggt accaggctgt tgctgatgc tgctgggact acgtgcgggc 60  
agcggctgga gaaggctcatt ggtactgagc acacagacat cattcgcgtt cccttcagaa 120  
atgagaatgg catcctccgc aagtggatct ctcgttttga tgtctggcca tacctggaga 180  
catacactga ggatgtttcc agtgaaataa tgaaagaaat gcaggccaag cctgacctta 240  
tcattggcaa ctacagcgat ggcaacctag tcgccactct gctcgcgcac aagttgggag 300  
tcactcagtg taccatcgct catgccttgg agaaaaccaa ataccccaac tcggacatat 360  
acttgacaaa attcgacagc cagtaccact tc 392

<210> 1042  
<211> 418  
<212> DNA  
<213> Zea mays  
<400> 1042

cgcgtctcga ccgctgaag aacatgacag gcctggtgga gatgtacggc aagaacgcgc 60  
gcctgagggga gctggcgaac ctcgatgatc tcgccggtga ccacggcaag gagtccaagg 120  
acagggagga gcatgcggag ttcaagaaga tgtacagcct catcgacgag tacaagttga 180  
agggccatat ccggtggatc tcggcgcaga tgaaccgcgt ccgcaacggg gagctgtacc 240  
gctacatttg cgataccaag ggcgcattcg tgcagcctgc gttctacgaa gcgttcggcc 300  
tgactgtgat cgagtccatg acgtgcggtc tgccaacgat cgcgacctgc catggtggcc 360  
ctgctgagat catcgtggac ggggtatctg gcctgcacat tgacccttac cacagcga 418

<210> 1043  
 <211> 436  
 <212> DNA  
 <213> Zea mays

<220>  
 <221> unsure  
 <222> (1)..(436)  
 <223> unsure at all n locations

<400> 1043

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gccaggcgga cccgagccac tggagcaaga tctcccaggg cgggctccag cgtagcgagg 60
agaagtacac ctggaagctc tactcggaga ggctgatgac cctcaccggc gtgtacgggt 120
tctggaagta cgtgtccaac ctggagaggc gcgagacccg gcggtacctg gagatgctgt 180
acgcgctcaa gtaccgcacc atggcgagca ccgtgccgct ggccgtggag ggagagccct 240
ccagcaagtg atgcgcgacg gcggccacag acctgatcga tcgatgagcg agaggagca 300
ctcggagtgt cgtgtctttt cccttgccat ttctttcttt tttcccttc ccggaggcga 360
aaaaaagagt ctgcttttgc taggcggcgg gcgttcgttg ctgctctttg cttcaagagt 420
taaanttacc tacctt 436
```

<210> 1044  
 <211> 376  
 <212> DNA  
 <213> Zea mays

<400> 1044

```
gtttgtaccc cttgctgaac ttcctcaagg ctcataacta caagggcacg acgatgatgt 60
tgaatgacag aatccaaagc cttcgtgggc tccaatcacc cctgagaaag gcagaggagt 120
atctactgag tgttctcaa gacactccct actcggagtt caaccatagg ttccaagagc 180
ttggcttgga gaagggttgg ggtgacactg cgaagcgtgt actcgacaca ctccacttgc 240
ttctcgacct tctggaggcc cctgatcctg ccaacttgga gaagttcctt ggaactatac 300
caatgatgtt caacgttggt atcctgtctc ctcattggcta cttegccag tccaatgtgc 360
ttggataccc tgacac 376
```

<210> 1045  
 <211> 412  
 <212> DNA



<213> Zea mays  
 <400> 1045

ctccgaagat cctcattggt accaggctgt tgctgatgc tgctgggact acgtgcgggg 60  
 atcggctgga gaaggtcatt ggtactgagc acacagacat cattcgcgtt cccttcagaa 120  
 atgagaatgg catcctccgc aagtggatct ctcgttttga tgtctggcca tacctggaga 180  
 catacactga ggatgtttcc agtgaaataa tgaaagaaat gcaggccaag cctgacctta 240  
 tcattggcaa ctacagcgat ggcaacctag tcgccactct gctcgcgcac aagttgggag 300  
 tcactcagtg taccatcgct catgccttgg agaaaaccaa atacccaac tcggacatat 360  
 acttgacaa attcgacagc cagtaccact tctcttgcca gttcacagct ga 412

<210> 1046

<211> 424

<212> DNA

<213> Zea mays

<400> 1046

ggcaactaca gcgatggctt cctagtcttc actctgctcg cacacaagtt gggagtgact 60  
 cagtgtacca tcgctcatgc cttggagaaa accaaatacc ccaactcgga catctacttg 120  
 gacaagttcg acagccagta ccacttctct tgccagttca cagctgacct tattgccatg 180  
 aaccacactg atttcatcat caccagcaca ttccaagaaa tcgcgggaag caaggacacc 240  
 gtggggcagt acgagtccca catcgcgttc actcttctct ggctctaccg tgctgctcat 300  
 ggcacgatg ttttcgatcc caagttcaac attgtctccc ctggagcaga catgagtgtt 360  
 tactaccgct atacggaac cgacaagaga ctactgcct ttcactctga aatcgaggag 420  
 ctca 424

<210> 1047

<211> 433

<212> DNA

<213> Zea mays

<400> 1047

gaagatgttt gacctcatcg agcagtacaa cctgaacggg cacatccgct ggatctgggc 60  
 ccagatgaac cgcgtccgca acggcgagct gtaccgctac atctgcgaca ccaagggcgc 120

cttcgtgcag cctgctttct acgaggcttt cgggctgacg gtggttgagg ccatgacctg 180  
 cggcctgccc acgtttgcca cagcctacgg cgggtccggcc gagatcatcg tgcacggcgt 240  
 gtctggctac cacatcgacc cttaccaggg cgacaaggcg tcggccctgc tcgtggactt 300  
 cttcgacaag tgccaggcgg acccgagcca ctggagcaag atctcccagg gcgggctcca 360  
 gcgtatcgag gagaagtaca cctgtaagct ctactcggag aggctgatga ccctaacggc 420  
 gtgtacgggt tct 433

<210> 1048  
 <211> 447  
 <212> DNA  
 <213> Zea mays

<220>  
 <221> unsure  
 <222> (1)..(447)  
 <223> unsure at all n locations

<400> 1048

ctgatcctgc caacttggag aagttccttg gaactatacc aatgatgttc aatgttgtga 60  
 tccgtttctcc tcatggctac ttcgctcagt ccaatgtgct tggataccct gacactggcg 120  
 gtcaggttgt gtacattctg gatcaagtcc gtgctttgga gaatgagatg cttctgagga 180  
 ttaagcagca aggccttgat atcaactccga agatcctcat tgttaccagg ctgttgacctg 240  
 atgctgctgg gactacgtgc ggtcagcggc tggagaaggc cattggtact gagcacacag 300  
 acatcattcg cggtccgttc agaaatgaga atggcatcct ccgcaagtgg atctctcggt 360  
 ntgatgtctg gccatacctg gagacatata ctgaggatgt ttccagtga ataatgaaag 420  
 aaatgcaggc caagcctgac cttatca 447

<210> 1049  
 <211> 383  
 <212> DNA  
 <213> Zea mays

<400> 1049

acctcatcga gcagtacaac ctgaacgggc acatccgctg gatctccgcc cagatgaacc 60  
 gcgtccgcaa cggcgagctg taccgctaca tctgcgacac caagggcgcc ttcgtgcagc 120  
 ctgctttcta cgaggctttc gggctgacgg tggttgaggc catgacctgc ggccctgcca 180

cgtttgccac agcctacggc ggtccggccg agatcatcgt gcacggcgtg tctggctacc 240  
 acatcgaccc ttaccagggc gacaaggcgt cggccctgct cgtggacttc ttcgacaagt 300  
 gccaggcgga cccgagccac tggagcaaga tctcccaagg cgggcttcaa cgtatcgagg 360  
 agaagtacac ctggaagctt tac 383

<210> 1050  
 <211> 278  
 <212> DNA  
 <213> Zea mays

<400> 1050

gtgtgggtag cctgcgttct acgaagcgtt cggcctgact gtgatcgagt ccatgacgtg 60  
 cggctctgcc aacgatcgca cctgccatgg tggccctgct gagatcatcg tggacggggg 120  
 atctggcctg cacattgacc cttaccacag cgacaaggcc gcggatatcc tgggtcaactt 180  
 ctttgacaaa tgcaaggcag atccgagcta ctgggacaag atctcacagg gcggcctgca 240  
 gagaatctat gagaagtaca cctggaagct ctactccg 278

<210> 1051  
 <211> 408  
 <212> DNA  
 <213> Zea mays

<400> 1051

aagatgtaca gcctcatcga cgagtacaag ttgaagggcc atatccggtg gatctcggcg 60  
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 ttcgtgcagc ctgcgttcta cgaagcgttc ggccctgactg tgatcgagtc catgacgtgc 180  
 ggtctgccaa cgatcgcgac ctgccatggt ggccctgctg agatcatcgt ggacggggta 240  
 tctggcctgc acattgaccc ttaccacagc gacaaggccg cggatatcct ggtcaacttc 300  
 tttgacaaat gcaaggcaga tccgagctac tgggacaaga tctcacaggg cggcctgcag 360  
 agaatctatg agaagtacac ctggaagctc tactccgaga ggctgatg 408

<210> 1052  
 <211> 434  
 <212> DNA  
 <213> Zea mays

<400> 1052

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ccaagaaatc gcggaagca aggacaccgt ggggcagtac gaggccaca tcgcgttcac 120  
tcttcctggg ctctaccgtg tcgtccatgg catcgatgtt ttcgatccca agttcaacat 180  
tgtctcccct ggagcagaca tgagtgttta ctaccgtat acggaaccg acaagagact 240  
cactgccttc catcctgaaa tcgaggagct catctacagc gacgtcgaga actccgagca 300  
caagttcgtg ctgaaggaca agaagaagcc gatcatcttc tcgatggcgc gtctcgaccg 360  
cgtgaagaac atgacaggcc tggtcgagat gtacgggaag aacgcgcgcc tgagggagct 420  
ggcgaacctc gtga 434

<210> 1053

<211> 439

<212> DNA

<213> Zea mays

<400> 1053

agaacgcgcg cctgagggag ctggcgaacc tcgtgatcgt tgccggtgac cacggggagg 60  
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acaagttgaa gggccatata cgggtgatct cggcgcagat gaaccgcgtc cgcaacgggg 180  
agctgtaccg ctacatttgc gatacgaagg gcgcattcgt gcagcctgcg ttctacgaag 240  
cgttcggcct gactgtgata gaggccatga cgtgcgggtc gccaacgata gcgacctgcc 300  
atggtggccc tgctgagata atcgtggacg gggatatctg cctgcacatt gacccttacc 360  
acagcgacaa ggccgcggat atcctggtca acttctttga caaatgcaag gcagatccga 420  
gctactggga caagatctc 439

<210> 1054

<211> 416

<212> DNA

<213> Zea mays

<400> 1054

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cattggtact gagcacacag acatcattcg cgttcccttc agaaatgaga atggcatcct 120

ccgcaagtgg atctctcggt ttgatgtctg gccatacctg gagacatata ctgaggatgt 180  
 ttccagtga ataatgaaag aaatgcacgc caagcctgac cttatcattg gcaactacag 240  
 cgatggcaac ctagtccca ctctgctcgc gcacaagttg ggagtcactc agtgtaccat 300  
 cgctcatgcc ttggagaaaa ccaaataccc caactcggac atatacttgg acaaattcga 360  
 cagccagtac cacttctctt gccagttcac agctgacctt attgccatga accaca 416

<210> 1055  
 <211> 375  
 <212> DNA  
 <213> Zea mays  
 <400> 1055

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 atcaacagcg acgtcgagaa ctccgagcac aagtctgtgc tgaaggacaa gaagaagccg 180  
 atcatcttct cgatggcgcg tctcgaccgc gtgaagaaca tgacaggcct ggtggagatg 240  
 tacggcaaga acgcgcgcct gagggagctg gcgaacctcg tgatcgctgc cggtgaccac 300  
 ggcaaggagt ccaaggacag ggaggagcat gcggagttca agaagatgta cagcctcatc 360  
 gacgagtaca agttg 375

<210> 1056  
 <211> 387  
 <212> DNA  
 <213> Zea mays  
 <400> 1056

atgaaccaca ccgatttcat catcaccagc acattccaag aaatcgcggg aagcaaggac 60  
 accgtggggc agtacgagtc ccacatcgcg ttactcttct ctgggctcta ccgtgtcgtc 120  
 catggcatcg atgttttcga tccaagtctc aacattgtct ctcttgagc agacatgagt 180  
 gtttactacc cgtatacggg aaccgacaag agactcactg ccttccatcc tgaaatcgag 240  
 gagctcatct acagcgacgt cgagaactcc gagcacaagt tcgtgctgaa ggacaagaag 300  
 aagccgatca tcttctcgat ggcgcgtctc gaccgcgtga agaacatgac aggcctggtg 360  
 gagatgtacg gcaagaacgc gcgcctg 387

<210> 1057  
 <211> 383  
 <212> DNA  
 <213> Zea mays

<400> 1057

gagaatggca tcctccgcaa gtggatctct cgttttgatg tctggccata cctggagacg 60  
 tacgctgagg atgtttccag tgaaataatg aaagaaatgc aggccaagcc tgaccttacc 120  
 attggcaact acagcgatgg caacctagtc gccactctgc tcgcgcacaa gttgggagtc 180  
 actcagtgtg ccatcgctca tgccttggag aaaaccaaact accccaactc ggacatctac 240  
 ttggacaagt tcgacagcca gtaccacttc tcttgccagt tcacagctga ccttattgcc 300  
 atgaaccaca ccgatttcat catcaccagc acattccaag aaatcgcggg aagcaaggac 360  
 accgtggggc agtacgaggt cca 383

<210> 1058  
 <211> 360  
 <212> DNA  
 <213> Zea mays

<400> 1058

cccacgcgtc cgctgtaccg ctacatctgc gaacaccaag ggcgcccttcg tgcagcctgc 60  
 tttctacgag gctttcgggc tgacggtggg tgaggccatg acctgcggcc tgcccacggt 120  
 tgccacagcc tacggcggtc cggccgagat catcgtgcac ggcggtgtctg gctaccacat 180  
 cgacccttac cagggcgaca aggcgtcggc cctgctcgtg gacttcttcg acaagtgcc 240  
 ggcggaaccg agccactgga gcaagatctc ccagggcggg ctccagcgta tcgaggagaa 300  
 gtacacctgg aagctctact cggagagggt gatgacctc accggcgtgt accggttctg 360

<210> 1059  
 <211> 404  
 <212> DNA  
 <213> Zea mays

<220>  
 <221> unsure  
 <222> (1)..(404)  
 <223> unsure at all n locations

<400> 1059

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ggatgtctnc tcagatgagc cgcgtccgca acggggagct gtaccgctac atttgcgata 120

cgaagggcgc attcgtgcag cctgcgttct acgaagcgtt cggcctgact gtgatcgagt 180

ccatgacgtg cggctctgcca acgatcgca cctgccatgg tggccctgct gagatcatcg 240

tggacgggggt atctggcctg cacattgacc cttaccacag cgacaaggcc gcggatatcc 300

tggtcaactt ctttgacaaa tgcaaggag atccgagcta ctgggacaag atctcacagg 360

gcggcctgca gagaatctat gagaagtaca cctggaagct ctac 404

<210> 1060

<211> 424

<212> DNA

<213> Zea mays

<400> 1060

gcgacaaggc gcgggatatc ctggtcaact tctttgacaa atgcaaggca gatccgagct 60

agtgggacaa gatctcacag ggcggcctgc agagaatcta tgagaagtac acctggaagc 120

tctactccga gaggtgatg accctgaccg gcgtgtacgg gttctggaag tacgtgagca 180

acctggagag gcgcgagacc cgccgctaca tcgagatgtt ctacgccctg aagtaccgta 240

gcctggcaag ccaggttccg ctgtccttcg attagtagcg ggaaagaaga agaagaagaa 300

gccagggccg gagaaccatc gcctgcattt cgatctgttt caccgcaatt cgcattgtta 360

gtcgtgtatt ggagttatgt gtacttggtt tccaagaact ttggttcctt ctcgtatatt 420

ttcc 424

<210> 1061

<211> 337

<212> DNA

<213> Zea mays

<400> 1061

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acgtgcggtc tgccaacgat cgcgacctgc catggtggcc ctgctgagat catcgtggac 120

ggggtatctg gcctgcacat tgacccttac cacagctgac aaggccgctg atatcctggt 180

caacttcttt gacaaatgca aggcagatcc gagctactgc gacaagatct cacagggcgg 240  
cctgcagaga atctatgaca agtgcacctg gaagctctac tccgagaggc tgatgaccct 300  
gaccggcgtg tacgggttct ggaagtacgt gagcaac 337

<210> 1062  
<211> 384  
<212> DNA  
<213> Zea mays

<400> 1062

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atcatcttct cgatggcgcg tctcgaccgc gtgaagaaca tgacaggcct ggtggagatg 120  
tacggcaaga acgcgcgcct gagggagctg gcgaacctcg tgatcgtcgc cggagaccac 180  
ggcaaggagt tcaaggacag ggaggagcag gcggagttca agaagatgta cagcctcatc 240  
gacgagtaca agttgaaggg ccatatccgg tggatctcgg cgcagatgaa ccgcgtgcgc 300  
aacggtgagc tgtaccgcta catttgcat accaagggcg cattcgtgca gcctgcgttc 360  
tacgaaacgt tcggcctgac tgtg 384

<210> 1063  
<211> 413  
<212> DNA  
<213> Zea mays

<400> 1063

ggcaaccctt ccaaggacaa ggaggagcat gccgagttca agaagatggt tgacctcatg 60  
gagcagtaca acctgaacgg gcacatccgc tggatctccg ccagatgaa ccgcgtccgc 120  
aacggcgagc tgtaccgcta catctgcgac accaagggcg ccttcgtgca gcctgctttc 180  
tacgaggctt tcgggctgac ggtgggtgag gccatgacct gcggcctgcc cacgtttgcc 240  
acagcctacg gcggtccggc cgagatcatc gtgcacggcg tgtctggcta ccacatcgac 300  
ccttaccagg gcgacaaggc gtccggccctg ctctgggact tcttcgacaa gtgccaggcg 360  
gacccgagcc actggagcaa gatctcccat ggccggctcc agcgtatcga gga 413

<210> 1064  
<211> 306  
<212> DNA



<213> Zea mays

<400> 1064

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ctctaccgtg tcgtccatgg catcgatgtt ttogatccca agttcaacat tgtctcccct 120  
ggagcagaca tgagtgttta ctaccgtat acggaaaccg acaagagact cactgccttc 180  
catcctgaaa tcgaggagct catctacagc gacgtccaga actccgagca caagttcgtg 240  
ctgaaggaca agaagaagcc gatcatcttc tcgatggcgc gtctcgaccg cgtgaagaac 300  
atgaca 306

<210> 1065

<211> 379

<212> DNA

<213> Zea mays

<400> 1065

ggacaccgtg gggcagtagc agttcctgat tgtgtttact cttcctgggc tctagcgcgt 60  
ggccatggc atcgatgttt tcgatcccaa gttcaacatt gtctcccctg gagcagacat 120  
cactgtttac taccgtata cggaaaccga caagagactc actgccttgc atcctgaaat 180  
cgaggagctc atctacagcg acttcgataa ctccgagcac aatttcatgc tgaaggacta 240  
catgatgccg atcatcttct cgatggcgcg tctataccgc gtgaagaaca tgactggcct 300  
gatcgagatg tacggcatga tcgcgcgcct gaggagctg tcgaacctcg tgatcgttgc 360  
cggtgaccac tgcaaggag 379

<210> 1066

<211> 352

<212> DNA

<213> Zea mays

<400> 1066

gcgcagatga accgcgtccg caacggggag ctgtaccgct acatttgca tacgaagggc 60  
gcattcgtgc agcctgcgtt ctacgaagcg ttcggcctga ctgtgatcga gtccatgacg 120  
tgcggtctgc caacgatcgc gacctgccat ggtggccctg ctgagatcat cgtggacggg 180  
gtatctggcc tgcacattga cccttaccac agcgacaagg ccgcggatat cctgggtcaac 240

ttctttgaca aatgcaaggc agatccgagc tactgggaca agatctcaca gggcggcctg 300  
cagagaatct atgagaagta cacctggaag ctctactccg agaggctgat ga 352

<210> 1067  
<211> 326  
<212> DNA  
<213> Zea mays

<400> 1067

gaaatcgagg agtcatcaa cagcgacgtc gagaactccg agcacaagtt cgtgctgaag 60  
gacaagaaga agccgatcat cttctcgatg gcgcgtctcg accgcgtgaa gaacatgaca 120  
ggcctgggtg agatgtacgg caagaacgcg cgcctgaggg agctggcgaa cctcgtgatc 180  
gtcgccggtg accacggcaa ggagtccaag gacagggagg agcaggccga gttcaagaag 240  
atgtacaggc tcatcgacga gtacaagttg gagggccata tccggtggat ctaggcgcag 300  
atgaaccggg ttccgcacgg ggagct 326

<210> 1068  
<211> 251  
<212> DNA  
<213> Zea mays

<400> 1068

acttcccgta caccgagtcg cacaagaggt tgacctccct tctctcgag attgaggagc 60  
gtcctgtaca gccaaaccga gaacacggag cacaagttcg ttctgaacga caggaacaag 120  
ccaatcatct tctccatggc tcgtctcgac cgtgtgaaga acttgactgg gctggtggag 180  
ctgtacggcc ggaacaagcg gctgcaggag ctggtgaacc tcgtggtcgt ctgcggcgac 240  
catggcaacc c 251

<210> 1069  
<211> 424  
<212> DNA  
<213> Zea mays

<400> 1069

ctggaagctc tactcggaga ggctgatgac cctcacgggc gtgtacgggt tctggaaggg 60  
cgtgtccaac ctggagaggc gcgagacccg gcggtacctg gagatgctgt acgcgctcaa 120

gtaccgcacc atggcgagca ccgtgccgct ggccgtggag ggagagccct ccagcaagtg 180  
atgcgcgacg gcggccacag acctgatcga tcgatgagcg agagggagca ctcggagtgt 240  
cgtgtctttt cccttgccat ttctttcttt atttccttc ccggaggcga aaaaaagagt 300  
ctgcttttgc tacgcggcgg tcgttcgttg ctgctctttg cttcaagagt taaatttacc 360  
taccttgtca aggtcttgat ccatcattga tcccagtgac gctatgttag gagtctgatg 420  
gact 424

<210> 1070  
<211> 421  
<212> DNA  
<213> Zea mays

<400> 1070

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gttctggaag tacgtgtcca acctggagag gcgcgagacc cggcgggtacc tggagatgct 120  
gtacgcgctc aagtaccgca ccatggcgag caccgtgccg ctggccgtgg agggagagcc 180  
ctccagcaag tgatgcgca cggcggccac agacctgatc gatcgatgag cgagagggag 240  
cactcggagt gtcgtgtctt ttcccttgcc atttctttct tttttccct tcccggaggc 300  
gaaaaaaaga gtctgctttt gctaggcggc gggcgttcgt tgctgctctt tgcttcaaga 360  
gttaaattta cctaccttgt caaggtcttg ttccatcatt gatccgggtg tcgctttttt 420  
a 421

<210> 1071  
<211> 342  
<212> DNA  
<213> Zea mays

<220>  
<221> unsure  
<222> (1)..(342)  
<223> unsure at all n locations

<400> 1071

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cgaaccgaga acacggagca caagttcgtt ctgaacgaca ggaacaagcc aatcatcttc 120  
tccatggctc gtctcgaccg tgtgaagaac ttgactgggc tgggtggagct gtacggcccg 180

aacaagcggc tgcaggagct ggtgaacctc gtggctcgtct gcggcgacca tggcaaccct 240  
 tccaaggaca aggaggagca ggccgagttc aagaagatgt ttgacctcat cgagcagtac 300  
 aacctgaacg ggcacatncg ctggatctcc gnccagatga ac 342

<210> 1072  
 <211> 480  
 <212> DNA  
 <213> Zea mays

<220>  
 <221> unsure  
 <222> (1)..(480)  
 <223> unsure at all n locations

<400> 1072

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 taacaataag tttaaccaac aaaaccggaa tccaattgct ccggcaaggt cccctaagga 120  
 aggctaagga ccaccggtca accctacagg ctgataccca aaaccctgaa tttcaccaca 180  
 ggttcaagga acttggcctg gaaaagggtt ggggtgattg ccctaagcgt gcaaaggaaa 240  
 ctatccacct cctcttggac ctcttgagg cccagatcc gtccaccctg gagaagtctc 300  
 ttggaacgat ccccatggtg ttcaatgtcg ttatcctctc ccctcatggt tacttcgctc 360  
 aagctaattgt cttgggttac cctgacaccg gagggcaggt tgtctacatc ttggatcaag 420  
 tgcgcgctat ggagaacgaa atgctgctga ggatcaagca gtgtggtctt gacatcacgc 480

<210> 1073  
 <211> 420  
 <212> DNA  
 <213> Zea mays

<400> 1073

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 gaagctctac tccgagaggc tgatgacctt gaccggcgtg tacgggttctt ggaagtacgt 120  
 gagcaacctg gagaggcgcg agaccgcgcg ctacatcgag atgttctacg ccctgaagta 180  
 ccgtagcctg gcaagccagg ttccgctgtc cttcgattag tacggggaaa gaaggagaag 240  
 aagaagaaga agcccaggcc ggagaacctt cgctgcatt tcgatctgtt tcaccgcaat 300

tcgcattggt agtcgtgtat tggagttatg tgtacttggg ttccaagaac tttggttcct 360  
 tgtttttttt tctttcttgt ttgagcggtt ttgggcagcg ctggcctggg tcctagtatg 420

<210> 1074  
 <211> 394  
 <212> DNA  
 <213> Zea mays

<400> 1074

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 ggtgacggtg attgcaatga accatgccga cttcatcatc accagtacct tccaagagat 120  
 cgccggaaac aaggacaccg tcggccagta cgagtcacac atggcgttca caatgcctgg 180  
 cctgtaccgc gttgtccacg gcattgatgt gttcgacccc aagttcaaca tcgtgtctcc 240  
 tggcgcgagc ctgtccatct actttccgta caccgagtcg cacaagaggc tgaccttcct 300  
 tcacccggag attgaagagc ttctgtacag ccaaaccgag aacacggagc acaagttccg 360  
 ttctgaacga caggaacaag ccaatcattt tttc 394

<210> 1075  
 <211> 403  
 <212> DNA  
 <213> Zea mays

<400> 1075

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 gtacagccaa accgagaaca cggagcacia gttcggttctg aacgacagga acaagccaat 120  
 catctttctc atggctcgtc tcgaccgtgt gaagaacttg actgggctgg tggagctgta 180  
 cggccggaac aagcggctgc aggagctggg gaacctcgtg gtcgtctgct gcgaccatgg 240  
 caacccttcc aaggacaagg tggagcagga cgagttcaag aagatgtttg acctcatcga 300  
 gcattacaac ctgaacgggc acattcggtg gatcttcgcc catatgaact cgcgtccgta 360  
 acggcgagct gttccgttac atttgctaca ccaaggtctc tag 403

<210> 1076  
 <211> 353  
 <212> DNA  
 <213> Zea mays

<220>  
 <221> unsure  
 <222> (1)..(353)  
 <223> unsure at all n locations

<400> 1076

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ggtgtctagc ggcggcatgg acccttacca gggctacaag gcgtcggccc tgctcgtgga 120
cttcttcgac aagtgccagg cggacccgag ccaactggagc aagatctccc atggcgggct 180
ccagcgtatc gaggagaagt acacctggaa gctctactcg gagaggctga tgaccctcac 240
cggcgtgtac gggttctgga agtacgtgtc caacctggag aggcgcgaga cccgacggta 300
cctggagatg ctgtacgcgc tcaagtaccg caccatggcg agcaccgtgc cgc 353
```

<210> 1077  
 <211> 253  
 <212> DNA  
 <213> Zea mays

<400> 1077

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acgaacgttc ggctgactg tgatcgagtc catgacgtgc ggtctgcaa cgatctgtac 60
cggccatggt ggccctgctg agatcatcgt ggacggggta tctggcctgc acattgaccc 120
ttaccacagc gacaaggccg cggatatact ggtcaacttc tttgacaaat gcaagggaga 180
tccgagctac tgggacaaga tctcacatgg cggcctgcag agaatctatg agaagtacac 240
ctggaatctc tac 253
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<210> 1078  
 <211> 298  
 <212> DNA  
 <213> Zea mays

<400> 1078

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ttgctgctct ttgcttcaag agttaaatat acctaccttg tcaaggtctt gttccatcat 120
tgatccgggt gtcgctttta gtagtctgat ggactgttag tagtttgctg tcgctcggtt 180
gagaggggaac ggtggtggtg gtggtgtgtg tgcagtcggg tgtggtgctc cctttgtttc 240
ctggatggga tggtgctcct tgaataataa tcgtagtggc cttggagccc ttttcctg 298
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<210> 1079  
 <211> 256  
 <212> DNA  
 <213> Zea mays  
  
 <400> 1079  
  
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 gggtgagaaa actaagtagc ctaactccga cctctactgg aagaagtttg aggatcacta 120  
 ccacttctcg tgccagttca ccactgactt gattgcaatg aaccatgccg acttcatcat 180  
 caccagtacc ttccaagaga tcgccgaaa caaggacacc gtccgccaat acgagtcaca 240  
 catggcgttc acaatg 256

<210> 1080  
 <211> 151  
 <212> DNA  
 <213> Zea mays  
  
 <400> 1080  
  
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 ttgccggcga ccacggcaag gagtccaagg acaggaggga gcaggcggag ttcaagaaga 120  
 tgtacagcct catcgacgag tccaagttga a 151

<210> 1081  
 <211> 208  
 <212> DNA  
 <213> Zea mays  
  
 <400> 1081  
  
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 gacgtggcgc atgagattgc tggagagctt caagccaatc ctgacctgat catcggaac 120  
 tacagtgacg gaaaccttgt tgcgtgtttg ctgccccaca agatgggtgt tactcactgt 180  
 accattgccc atgcgcttga aaaactaa 208

<210> 1082  
 <211> 240  
 <212> DNA  
 <213> Zea mays

<400> 1082

cggacgcgtg ggcggacgcg tggggtttac taccctgata cggaaaccga caagagactg 60  
actgccttcc atcctgaaat cgaggagctc atctacagcg acgtcgagaa ctccgagcac 120  
aagttcgtgc tgaaagacaa gaagaagccg atcatcttct cgatggggcg tcttgacccc 180  
gtgaagaaca tgacaaggct gggcgagatg tacggcaaga acccgcgctt gaaggagctg 240

<210> 1083

<211> 393

<212> DNA

<213> Zea mays

<400> 1083

gaggagctgg cgaacctcgt gatcgttgcc ggtgaccacg gcaaggagtc caagggcagg 60  
gatgagcagg cggagttcaa gaagatgtac agcctcatcg acgagtacaa gttgaagggc 120  
catatccggg ggatctcggc gcagatgaac cgcgttcgca acggggaact gtaccgctac 180  
atttgcgatt cgaaaggcgc atttcgtgcc agctgcgttc ttcgaaacgg tcgggctgac 240  
tgggatcgaa tccatgacgt gcggtctgcc aacgatcgcg accttccatg gtgggccttc 300  
tgaaaatatc gtggactggg tatttggcct ggacattgac cttttccaca gcgacaaggc 360  
cttgatatt ccggttaacg tttttgacca atg 393

<210> 1084

<211> 318

<212> DNA

<213> Zea mays

<400> 1084

gggatgttgc tccttgaata ataatcgtag tggccttgga gcccttttcc tgaaataaga 60  
gcagcatcct agtgcttcac tttgcaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180  
aaaaaaaaaa aaaaaaaaaa ggaatcaaat caaaaatatc aaaacttaaa aaaattaata 240  
agaaataaaa aaaatatact aatgattaac caaaataaaa acaaatatca atttattaaa 300  
aactcaaaca aggaaaaa 318



<210> 1085  
 <211> 451  
 <212> DNA  
 <213> Zea mays  
  
 <400> 1085  
  
 agcagacatg agtgtgtact acccgatac ggaaaccgac tagagactca ctgccttcca 60  
 tcctgaaatc gaggagctca tctacagcga cgtcgagAAC tccgagcaca agttcgtgct 120  
 gaaggacaag aagaagccga tcatcttctc gatggcgcgt ctcgaccgcg tgaagaacat 180  
 gacaggcctg gtcgagatgt acggcatgaa cgcgcgcctg agggagctgg cgaacctcgt 240  
 gatcgttgcc ggtgaccact gcaaggagtc caaggacagg gaggagcagg cggagttaa 300  
 gaagatgtac agcctcatcg acgagtacaa gttgaagggc catatccggt ggatctcggc 360  
 gcagatgaac cgcgtccgca acggggagct gtaccgctac atttgcgata cgaagggcgc 420  
 attcgtgcag cctgcgttct acgaagcgtt c 451

<210> 1086  
 <211> 351  
 <212> DNA  
 <213> Zea mays  
  
 <400> 1086  
  
 gctagctctc tgttgaccat tgcgtattct gaaccatcga gccatggctg ccaagcgtac 60  
 tggcctccac agtcttcgcg aacgccttgg tgccaccttc tcctcccatc ccaatgaact 120  
 gatagcactc ttttccaggt atgttcacca gggcaaggga atgcttcagc gccatcagct 180  
 gcttgcgagg tttgatgcc tgtttgatag tgacaaggag aagtatgcac cctttgaaga 240  
 cattcttcgt gctgctcacg aagcaattgt gctcccccca tgggttgac ttgctatcag 300  
 gccaaaggcct cgtgtctggg attacattcg ggtgaatgta agtgagcttg c 351

<210> 1087  
 <211> 220  
 <212> DNA  
 <213> Zea mays  
  
 <400> 1087  
  
 gcacgaggcc aggcgacgag cgccggtcgg tcgtcgccat cgacggcggc ctgttcgagc 60  
 actacgccga gttcaggaag cgcttgagg ccacgctggg ggagctgctc ggggaggagg 120

cgtctaggct ggtggaggtc aagctcacca aggacgggtc tggcctcgga gccgccctca 180  
 ttgcagctgc ccactcgag tactgaacgc ccaacggccg 220

<210> 1088  
 <211> 313  
 <212> DNA  
 <213> Zea mays

<400> 1088

cggagatgcg cgccggactg cgcaggacgg cggcagcaag atcaagatga tcgtctcctt 60  
 cgtcgacaac ctccccacgg ggaacgaaga gggcgtcttc tacgccttgg accttggcgg 120  
 aacgaacttc cgcgtgctgc gcgtgcagct ggccgggaag gacaggcgtg tgtgcaagcg 180  
 agagtccaag gaggtgtcca tccctcctca cctcatgtca ggcaacgcac cggagctgtt 240  
 tggcttcacg gcctcggcgc tagctaagta cgtcgccgcg gcgggcgaaa gggacggcaa 300  
 gcagagagag ctc 313

<210> 1089  
 <211> 314  
 <212> DNA  
 <213> Zea mays

<400> 1089

gttcatctcc atgccgacct gactcggact cttgatttgc tcctcgcggg ggttcggtcc 60  
 catggcggca gctgcgctgg caatggcaga gcaggtggtg gccgagctcc gagtgaggtg 120  
 tgagacgccg ccgtcgatgc tgcgcgaggt ggccgtggag atggcccgcg agatgggcgc 180  
 ggggctggag aaggacggcg ggagcagggt caagatgctc ctctcctacg tcgataagct 240  
 cccacaggg agagaggaag gattattcta tggattgacc ctaggaggaa cgaatttccg 300  
 cgtcttgaaa gtgc 314

<210> 1090  
 <211> 286  
 <212> DNA  
 <213> Zea mays

<400> 1090

ctcgcttcag tcttaggtat ttttatgtct ctcttttatt tcgagagttg cctgttccat 60

atggaaaaaa aaaacgagag ttaatgctga tcaaacagac gttgctgctg cgtttggcat 120  
tcaggactcc ggacatctcc gcgatgcacc atgacggcac gcctgacctg agagtcgtgg 180  
cggagaagct ggccgacaac ctcaggggtca gggacacgtc cttggacacg aggaagatgg 240  
tggtcgagat ctgcgacatc gtcaccggga ggtctgcccc gctggc 286

<210> 1091  
<211> 271  
<212> DNA  
<213> Zea mays

<400> 1091

cttacaaact ctggtggcat ggtagtaaac atggaatggg gcagtttctg gtcatcacat 60  
ttgccaagaa ctcccttatga catctccctt gatgatgaga cacaaaaccg caatgatcag 120  
gggtttgaga aaatgggtctc tgggatttat cttggggaaa ttgcaaggct ggtgctgcat 180  
cgaatggctc tagaatcaga ttttcttggg gacgctgctg ataatctatg taccctcttc 240  
acattgagca caccactcct cgctgcaatt c 271

<210> 1092  
<211> 266  
<212> DNA  
<213> Zea mays

<400> 1092

caaagacaaa ttgctaggtg acttttagcca acaaaggact gtagttgcta ttgacgggtg 60  
cctatacgag cactacaaga agttcagtgc ctgcctagag gcgacgctca cagacctgct 120  
cggcgaggag gttgcctcat cggttggtgt caagttggcc aacgacggct caggaattgg 180  
agctgcactt cttgctgctt cgcactccca gtatgctgaa gctgcatagt tctaggagct 240  
cgggggtcct agtgtaacct tttttt 266

<210> 1093  
<211> 307  
<212> DNA  
<213> Zea mays

<220>  
<221> unsure  
<222> (1) .. (307)

<223>        unsure at all n locations

<400>        1093

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ccgcgatgca ccatgacggc acgcctgacc tgagagtcgt ggcggagaag ctggccgaca   60
acctcaggggt cagggacacg tccttggaca cgaggaagat ggtggtcgag atctgcgaca  120
tcgtcaccgg gacgtctgca cggctggccg cggcggggat cgtcgggatc ctcaggaaga  180
tcggtcgagc ggcgccaggc gacgagcgcc ggtacgtcgt cgcgatcgac ggcggcctgt  240
tcgagcacta cgccgagttc agggaagcgc ctgtagccac gcntagtgag ctgctcgggg  300
gagagcg                                           307
```

<210>        1094

<211>        260

<212>        DNA

<213>        Zea mays

<400>        1094

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cccacgcgtc cgcccacgcg tccggataaa tccttagact tcgaaagttt gaaccctggt   60
gagcagatat atgaaaagat gatttctgga atgtatcttg gagaaattgt ccggaggatc  120
ctgctgaaac tggctcatga tgcttcattg tttggggatg ttgttctcc gaaactggaa  180
cagctattta tactgaggac gccagatatg tcagccatgc accatgacac ctcacatgat  240
ctcaaacacc tgggagctaa                                           260
```

<210>        1095

<211>        277

<212>        DNA

<213>        Zea mays

<400>        1095

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gaagataggc cgggacaaag taccaagcag tggcagtaaa atgccaagga ctgtaattgc   60
cttggatggt gggctctatg agcattacaa gaagttcagc agctgcgtcg aagcaactct  120
tacagacttg ctcggcgaag aggcctcttc ctccgtgggt gccaaagctgg ccaacgatgg  180
ctctggcatt ggagctgctc tccttgcagc ctcacactcc cagtatggcg agagtgacta  240
gtcttgaaaa ccggtgtgga tcgaacttcg agtgtag                                           277
```

<210>        1096

<211> 206  
 <212> DNA  
 <213> Zea mays  
  
 <400> 1096  
  
 gcagcatatg tggagcatgc aaatgcaatt cctaaatgga cggggttact gcctaaatct 60  
 ggaaacatgg taattaatac ggaatgggga agctttaaat ccggcaagct tcctctctca 120  
 gaatacgaca aagccatgga ctttgaaagt ttgaaccctg gagagcagat atacgaaaaa 180  
 atgatctctg gcatgtatct gggaga 206

<210> 1097  
 <211> 343  
 <212> DNA  
 <213> Zea mays  
  
 <220>  
 <221> unsure  
 <222> (1)..(343)  
 <223> unsure at all n locations  
  
 <400> 1097  
  
 ggcattagtc aatgatacag tgggcacatt ggctggtggg agatatatgg ataccgatgt 60  
 agttgcagct gtaatattnng gcactggtac aaatgcagca tatgtggagc atgcaaatgc 120  
 aattcctaaa tggactgggt tactgcctaa atctggaaag atggtantta atacagagtg 180  
 ggggagcttc aaatccaaca aacttcctct ttcagaatat gacaaagnca ncnnncttga 240  
 aagtttgaac ctggagagca gatattacga gaaatgnntc tggatatgtac tcggagagat 300  
 tgttcgaaga atntactgaa ntggccatga gctctctatt ggg 343

<210> 1098  
 <211> 257  
 <212> DNA  
 <213> Zea mays  
  
 <400> 1098  
  
 gggtttttga ttgaagatgt ggttgggaaa gatgtggctc aatgcttaaa tgaagctctt 60  
 gctaggagtg gactaaatgt gcgagttact gcactggtga atgacactgt ggggacgtta 120  
 gctctaggtc attatcacga tgaggataca gtggctgctg tgataatcgg tgctggcacc 180  
 aatgcttgct atatcgaacg cactgatgca attattaaat gtcagggtct tcttaciaaac 240

tctggtggca tggttgt 257

<210> 1099  
<211> 286  
<212> DNA  
<213> Zea mays

<400> 1099

gactagatgt acggtagtag ctcggaatcg gctgagcaaa acctgggagc taagctgaag 60  
gacattcttg gggttcctga tacttctctg gacgcaagat acatcactct tcatgtgtgc 120  
gaccttgtcg cagagagaag tgcacgcctg gctgctgctg gtatatatcg tattctgaag 180  
aagctgggta aagacaaatt gctaggtgac tgatacaaac aaaggactgt agttgctatt 240  
gacggtggcc tatacgagca ctacaagaag ttcagtgcct gcctag 286

<210> 1100  
<211> 254  
<212> DNA  
<213> Zea mays

<400> 1100

gaaacatctg atctgaagat tgtggccgaa aattttgaac aaaacctaga gattacaggc 60  
acatccttgg aggctcgtaa gctggtcgtt gaaatctgtg acattgtggc gacaagagca 120  
gcccggctgg ctgctgcggg gcttgcaggg atcctcatga agatcgggag agatcacagc 180  
gtcgaggacc aacggtcagt catcgccatc gacggaggac tgttcgagca ctacacccaaa 240  
ttccgcccgt gctt 254

<210> 1101  
<211> 303  
<212> DNA  
<213> Zea mays

<220>  
<221> unsure  
<222> (1) .. (303)  
<223> unsure at all n locations

<400> 1101

tctcccttga tgatgagacg caaaatcgca atgatcaggg gtttgaaaaa atgatatctg 60

nggattttatc ttgggggaaat tgcaaggctg gtgctgcac gaatggctct agaatcagat 120  
 gtcttttggtg atgccgctga taatctatca accccttcac attgagcaca ccacttctgg 180  
 ctgcaattcg caaggacgat tcaccagatc tgagcgaagt cagaaggata ttgcaagacc 240  
 atctgaagat accggacact cctctgacaa ctcggaagct agtcgtcaaa gtctgcgaca 300  
 tcg 303

<210> 1102  
 <211> 263  
 <212> DNA  
 <213> Zea mays

<400> 1102

gtttgttgac gatgatgaga agtgcgctaa catttcgaat ggcaagaagc gagatctagg 60  
 gttcacgttt tcgttcccag tgaagcagcg ttctgtagct tccggtacgc ttgtcaagtg 120  
 gacaaaggca ttttccatta atgatgctgt aggccaagat gtggtggctg aactgcaaac 180  
 agccatggag aagcaaggtc tggacatgca tgtagctgca ttgattaatg atgctggttg 240  
 gacgctggcg ggagcaaggt act 263

<210> 1103  
 <211> 270  
 <212> DNA  
 <213> Zea mays

<400> 1103

ctttgttgac gatgatgaga agtgcgctaa catttcgaat ggcaagaaga cgagtctagg 60  
 gttcacgttt tcgttcccag tgaagcagcg ttctgtagct tccggtacgc ttgtcaagtg 120  
 gacaaaggca ttttccatta atgatgctgt aggccaagat gtggtggctg aactgcaaac 180  
 agccatggag aagcaaggtc tggacatgca tgtagctgca ttgattaatg atgctggttg 240  
 gacgctggcg ggagcaaggt actacgacaa 270

<210> 1104  
 <211> 279  
 <212> DNA  
 <213> Zea mays

<400> 1104

gcgtcgagga ccaacgggtca gtcacgcgcca tcgacggagg actgttcgag cactacacca 60  
aattccgccg gtgcttggag accacactgg gtgagctgct aggagacgag gcgtccaagg 120  
cgggtggccat caagcatgcc gatgacggct caggaatagg tgctgccctg attgcagctt 180  
cacagtctca gtacaaaaac gacttagtgg ccgtcaagca tgcagatgac gggttcaggag 240  
tcaagtatgc agaagacaag cgtgcagatg acgggttcag 279

<210> 1105  
<211> 349  
<212> DNA  
<213> Zea mays

<400> 1105

tggcgacaag agcagcccgg ctggctgctg cggggcttgc agggatcctc atgaagatcg 60  
ggagagatca cagcgtcgag gaccaacggg cagtcacgc catcgacgga ggactgttcg 120  
agcactacac caaattccgc cgggtgcttg agaccacact gggtgagctg ctaggagacg 180  
aggcgtccaa ggcgggtggcc atcaagcatg ccgatgacgg ctcaggaata ggtgctgccc 240  
tgattgcagc ttcacagtct cagtacaaa acgacttagt ggccgtcaag catgcaatga 300  
cgggttcagga gtcaagtatg cagaagacaa gcgtgcagat gacggttca 349

<210> 1106  
<211> 338  
<212> DNA  
<213> Zea mays

<400> 1106

ctttcgtgtc atccgggtcc aacttggcgg aaggacaga cgtgtcgtga agccacagta 60  
tgaagaggtc tccattccgc ctcatcttat ggttggaact tctacggaac tatttgattt 120  
cattgctgct gagttgaaa aatttgtgcg gactgaagga gaagatttcc acctaccaga 180  
tagcaagcag agggaactgg gtttcacett ttctttccca gtgcacaaa catctatata 240  
atcggggact ctaattaagt ggaccaaagg attttgcata aatggcacgg ttggagaaga 300  
tgttgtggct gaattgagta gggccatgga aaggcagg 338

<210> 1107  
<211> 263  
<212> DNA



<213> Zea mays  
 <400> 1107  
 agcagagggga actgggtttc accttttctt tcccagtgc ccaaacatct atatcatcgg 60  
 ggactctaata taagtggacc aaaggatttt gcatcaatgg cacggttgga gaagatgttg 120  
 tggctgaatt gagtagggcc atggaaaggc agggctcttga tatgaaagtt gcagctctgg 180  
 ttaatgatac ttaggcacaca ttggctggtg ggagatatgc tgataatgat gttgttgctg 240  
 ctgtaatatatt gggcactggc aca 263

<210> 1108  
 <211> 119  
 <212> DNA  
 <213> Zea mays  
 <400> 1108  
 gatttccacc taccagatgg caagcagagg gaactggggtt tcaccttttc tttcccagtg 60  
 caccaaacad ctatatcatc ggggactcta attaagtggga ccaaaggctt ttgcatcaa 119

<210> 1109  
 <211> 277  
 <212> DNA  
 <213> Zea mays  
 <220>  
 <221> unsure  
 <222> (1) .. (277)  
 <223> unsure at all n locations  
 <400> 1109  
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 ttgtttctga gttgagcagg gccatggaga ggcagggact agatatgaaa gctacggcat 120  
 tagtcaatga tacagtgggc acattggctg gtgggagata tatggatacc gatgtagttg 180  
 cagctgtaat attgggcact ggtacaaatg cagcatatgt ggagcatgca aatgcnnttc 240  
 ctaaattggac tgggttactg cctaaatctg gaaagat 277

<210> 1110  
 <211> 242  
 <212> DNA  
 <213> Zea mays

<400> 1110

tgttgatact gaaggtgaag atttccacct cccagaggggt aggcagagag aacttggttt 60  
cacgttttcc ttcccagtga accaaacatc aatatcatca ggaacactca tcaagtggac 120  
aaagggtttt tccatcaatg gcacggttgg tgaagatgtt gtttctgagt tgagcagggc 180  
catggagagg cagggactag atatgaaagt tacggcattg gtcaatgata cagttggcac 240  
at 242

<210> 1111

<211> 250

<212> DNA

<213> Zea mays

<400> 1111

ggaagggaga aacgtgttgt caaacaacag tacgaggagg ttccattcc accgcatttg 60  
atggtcggga cttccattga actatttgat ttcattgctg ctgcattggc taaatttggt 120  
gatactgaag gtgatgattt ccacctcca gagggtaggc agagagaact tggtttcacg 180  
ttttccttcc cgtgaaacca aacatcaata tcatcaggaa cactcatcat ttggacaaag 240  
ggcttttcca 250

<210> 1112

<211> 330

<212> DNA

<213> Zea mays

<400> 1112

cggaggaaca aactttagag tgctgaaagt tgaagttggt gatgggtctg tggtcactcg 60  
ccgtaaggtc gagcttcca tccctgagga attgattaag ggtacaattg aggagttatt 120  
caactttggt gccgtgacc taaaggagtt cgtagaagca gaagatggta aagacgaaca 180  
aagggcactt ggtttcacat tttctttccc agtcagacaa acatcagtat cttcagggtc 240  
cttaattagg tggaccaaag ggtttttgat tgaagatgtg gttgggaaag atgtggctca 300  
atgcttaaata gaagctcttg ctaggagtgg 330

<210> 1113

<211> 289

<212> DNA  
 <213> Zea mays  
 <400> 1113  
 gaacgaagag ggcgtcttct acgccttgga ccttggcgga acgaacttcc gcgtgctgcg 60  
 cgtgcactcg ccgggaaaga caggcgtgtg gccaaagcgag actccaagga ggtgtccatc 120  
 cctcctcacc tcatgtcagg caacgcgtcg gagctgtttg gcttcacgcg ctcggcgcta 180  
 gctaagtacg tcgccgcggc gggcgaaggg gacggcaggg agagagagct cgggttcacc 240  
 ttctctttcc ccgtgcgcca gacgtcgatc gcgtcaggca cgctcatca 289

<210> 1114  
 <211> 295  
 <212> DNA  
 <213> Zea mays  
 <400> 1114  
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 tttggcttca tcgcctccgc gctagccaag tacgtcgccg cggcgggcca aggggacggc 120  
 aggcagagag agctcgggtt caccttctct tccccgtgc gccagacgtc gatcgcgta 180  
 ggcacgtca tcaagtggac caaggcgttt tcggtcgacg acgctgttgg tgaggatgtc 240  
 gtcgccgagc tgcagacggc catggagaag caaggcgtcg acatgcgtgt ggcgg 295

<210> 1115  
 <211> 277  
 <212> DNA  
 <213> Zea mays  
 <400> 1115  
 cggctcgagg gcaacgcacg ggagctgttt ggcttcacgc cctcggcgct agcaagtacg 60  
 tcgccgcggc gggcgaaggg gacggcaggg agagagagct cgggttcacc ttctctttcc 120  
 ccgtgcgcca gacgtcgatc gcgtcaggca cgctcatcaa gtggaccaag gcgttttcgg 180  
 tcgacgatgc tgttggtgag gatgtcgatc ccgagctgca gacggccatg gagaagcaag 240  
 gcgtcgacat gcgtgtggcg gcactgatca acgatac 277

<210> 1116  
 <211> 275

<212> DNA  
 <213> Zea mays  
 <400> 1116  
 aggcgtgtgg ccaagcgaga ctccaaggag gtgtccatcc ctctcacct catgtcaggc 60  
 aacgcgtcgg agctgtttgg cttcatcgcc tcggcgctac caagtacgtc gccgcggcgg 120  
 gcgaacggga cggcaggcag agagagctcg ggttcacctt ctctttcccc gtgcgccaga 180  
 cgtcgatcgc gtcaggcacg ctcacaaagt ggaccaaggc gttttcggtc gacgacgctg 240  
 ttggtgagga tgcgtcgcc gagctgcaga cggcc 275

<210> 1117  
 <211> 261  
 <212> DNA  
 <213> Zea mays  
 <400> 1117  
 ttctcatctc atctcccat cactgaatga tcaagaatta gataaggaga gcttaaattcc 60  
 aggagaacag atttacgaga agttaacgtc aggaatgtat ttaggtgaaa ttgtaaggag 120  
 ggtgctcctt aaaatatcat tgcagtcgc catttttggg gatattgacc aactaagct 180  
 tcaaaccat ttccttctgc ggactccaca tatttcagca atgcaccatg acgaaacatc 240  
 tgatctgaag attgtggccg a 261

<210> 1118  
 <211> 267  
 <212> DNA  
 <213> Zea mays  
 <400> 1118  
 cccacgcgtc cgccattcc atgttgatga ccatgtctcc tgaatggggc agctcacct 60  
 cccatttttg aatatgatca agaattagat aaggagagct taaatccagg agaacagatt 120  
 tacgagaagt taacgtcagg aatgtattta ggtgaaattg taaggagggt gctccttaaa 180  
 atatcattgc agtccgccat ttttggtgat attgaccaca ctaagcttca aaccatttc 240  
 cttctgcgga ctccacatat ttcagca 267

<210> 1119  
 <211> 296

<212> DNA  
 <213> Zea mays  
 <400> 1119  
 tgtcaagtgg acaaaggcat tttccattaa tgatgctgta ggcgaagatg tggaggctga 60  
 actgcaaaca gccatggaga agcaaggctt ggacatgcat gtagctgcat tgattaatga 120  
 tgctgttggg acgctggcgg gagcaaggta ctacgacaaa gatgttgctg ctggtgtaat 180  
 atttggcact ggcacaaacg cagcatatgt tgagaaggca aatgctattc caaaatggga 240  
 gggtagctg cccattcag gagacatggt catcaacatg gaatggggta acttct 296

<210> 1120  
 <211> 307  
 <212> DNA  
 <213> Zea mays  
 <400> 1120  
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 ggcaaagtct attccaaaat gggaggggtga gctgccccat tcaggagaca tggatcatcaa 120  
 catggaatgg ggtaacttct tctcatctca tctccccatc actgaatatg atcaagaatt 180  
 agataaggag agcttaaata caggagaaca gatttacgag aagttaacgt caggaatgta 240  
 tttaggtgaa attgtaagga gggtagctct taaaatatcg atgcagtcgg ccatttttgg 300  
 tgatatt 307

<210> 1121  
 <211> 197  
 <212> DNA  
 <213> Zea mays  
 <400> 1121  
 agatgttgct gctggtgtaa tatttggcac tggcaciaac gcagcatatg ttgagaaggc 60  
 aaatgctatt ccaaaatggg agggtagct gcccattca ggagacatgg tcatcaacat 120  
 ggaatggggg aacttcttct catctcatct cccatcact gaatatgatc aagaattaga 180  
 taaggagagc ttaaatac 197

<210> 1122  
 <211> 170

<212> DNA  
 <213> Zea mays  
 <400> 1122  
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 gtcagccatg catcatgact cttcgcatga cctcaaaact cttggatcta aactgaagga 120  
 tatagttggg gtcgcagata cttccctgga agtaagatac attactcgtc 170

<210> 1123  
 <211> 306  
 <212> DNA  
 <213> Zea mays  
 <400> 1123  
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 actggcacaa atgcagctta tgtggaacat gcaaagtga ttctaaatg gaccgggctg 120  
 ctacctagat cagggaaacat ggtaatcaac atggagtggg gaaacttcag atcagataaa 180  
 cttccaaggt cggagtatga taaatcctta gacttcgaaa gtttgaaccc tggtagcag 240  
 atatatgaaa agatgatttc tggaatgtat cttggagaaa ttgtccggac gatcctgctg 300  
 aaactg 306

<210> 1124  
 <211> 308  
 <212> DNA  
 <213> Zea mays  
 <400> 1124  
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 actggcacaa atgcagctta tgtggaacat gcaaagtga ttctaaatg gaccgggctg 120  
 ctacctagat cagggaaacat ggtaatcaac atggagtggg gaaacttcag atcagataaa 180  
 cttccaaggt cggagtatga taaatcctta gacttcgaaa gtttgaaccc tggtagcag 240  
 atatatgaaa agatgatttc tggaatgtat cttggagaaa ttgtccggag gatcctgctg 300  
 aaactggc 308

<210> 1125  
 <211> 315

<212> DNA  
 <213> Zea mays  
 <400> 1125  
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 attgggcact ggcacaaatg cagcttatgt ggaacatgca aatgtgattc ctaaattggac 120  
 cgggctgcta cctagatcag ggaacatggt aatcaacatg gagtggggaa acttcagatc 180  
 agataaactt ccaaggctcg agtatgataa atccttagac ttcgaaagtt tgaaccctgg 240  
 tgagcagata tatgacaaga tgatttctgg aatgtatctt ggagaaattg tccggacgat 300  
 cctgctgaaa ctggc 315

<210> 1126  
 <211> 442  
 <212> DNA  
 <213> Zea mays  
 <400> 1126  
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 cacaaaaccg caatgatcag gtgaacaccc tgtgcaaadc atgttatgta atagttgtac 120  
 cttttgttag tattgccgaa caaatttgac attgatgcag gggtttgaga aaatggctctc 180  
 tgggatttat cttggggaaa ttgcaaggct ggtgctgcat cgaatggctc tagaatcaga 240  
 tttttttggt gacgctgctg ataattctatg taccoccttc acattgagca caccactcct 300  
 cgctgcaatt cgcaaggacg attcaccaga tctgagcgaa gtcaggaaga tactgcaaga 360  
 acatctgaag gtcagctttc ctgaccttca tgaagtcaaa catgtgtttt cctccaacct 420  
 gtgaaggctc tgggtatttt gc 442

<210> 1127  
 <211> 436  
 <212> DNA  
 <213> Zea mays  
 <400> 1127  
 ctgaaaactc gaaggctggt tgtcaaagtg tgcgacatcg tcacccggag agctgcccgg 60  
 ctagccgcgcg ctggtattgt cgggatactg aaaaagctcg gccgtgatgg gagcggtggt 120  
 gcttcaagcg ggagaacggg agggcagatg aggcggacgg tggttgccat cgaggggtggg 180

ctgtacgagg gctacccggt gttcagggag tacctagacg aagccctggt ggagatcttg 240  
 ggggaggagg tggcgcggaac ggtggcgctg aggggtgacag tggatgggtc tggggccggc 300  
 gctgccctcc ttgccgccgt acattcgctg aatagacagc aagggtccat atagggagaa 360  
 gggaagatgg tgatacagcc ccctctgtgc aaatgtaaaa aggaacatta tttgatatct 420  
 atattcatat atatat 436

<210> 1128  
 <211> 443  
 <212> DNA  
 <213> Zea mays

<400> 1128

caaacaacag tatgaggagg tttccattcc accacatttg atggtcggga cttccatggg 60  
 actatcttgat ttcattgctg ctgcattggc taaatttgct ggtactgaag gtgaagattt 120  
 ccaactccca gagggtagac agagagaact tggtttcaact ttttccttcc cggatgaacca 180  
 aacatcaata tcatcaggaa cactcatcaa gtggacaaag ggcttttcca tcaatggcac 240  
 ggttggtgaa gatgttgatt ctgagttgag cagggccatg gagaggcagg ggctagatat 300  
 gaaagttacg gcattagtca atgatacagt cggcacattg gctgggtggga gatatatgga 360  
 taccgatgta gttgcagctg taatattggg cactggtaca aatgcagcat atgtggagca 420  
 tgcatatgca attcctaaat ggg 443

<210> 1129  
 <211> 419  
 <212> DNA  
 <213> Zea mays

<220>  
 <221> unsure  
 <222> (1)..(419)  
 <223> unsure at all n locations

<400> 1129

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 tcctctcttg ccttgatagg tgctggagca atcctcgctg tctggatata cttggttgta 120  
 gtgagatctc tcgactctgt cccgttgctc ccaggcatat tggagctagt cgggctcagc 180



tactctggat ggtttgtgta ccgatacctg ctttttcagg aaaaccggaa agaattggcc 240  
 ggtgttatcg atgatataaa gagaaggatt gttggcgatg atgaatagct gtttcctggg 300  
 ttgtaattct atttatctcg ccttgtttgg ttctgaggaa ttgaaaaata atccaatggg 360  
 gaagtgagaa agcactntct agttattggg tntaattcat ggngtcctaaa caggctcct 419

<210> 1130  
 <211> 430  
 <212> DNA  
 <213> Zea mays

<400> 1130

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 tcggaagggt gaacttccca tccctgagga attgaccaag ggtacaattg aggagctatt 120  
 caactttggt gccatgactc taaaggaatt tgtagaaaca gaagatggga acgatgaaca 180  
 acgagcgctt ggtttcacat tttctttccc agttagacaa acatcagtat cttcggggtc 240  
 attgattagg tgaataaaag ggtttttgat tgaagatgcg gttgggaaag atgtggctca 300  
 atgcttaaata gaagctcttg ctaggaatgg actaaatgtg cgagttactg cactggtgaa 360  
 tgacaccgtg gggacattag ctctaggaca ttatcacgat gaggatacag tggtctgtgt 420  
 gatcattggg 430

<210> 1131  
 <211> 356  
 <212> DNA  
 <213> Zea mays

<400> 1131

ggacctcaaa gcgaagtggg acgccgttga ggacaagccc accgtcctct tgtacggcgg 60  
 cggcgccgtc gtcgccctct ggetgacgtc cgtggtcgtg ggcgccatca acgccgtgcc 120  
 gctgctcccc aagatcctgg agctcgttgg gctcggctac accggctggg tcgtgtaccg 180  
 ctaccttctc ttcaaggaaa gcaggaaaga gttggccgcc gacattgaga ccttgaagaa 240  
 aaaaatagct ggaacagaat aaacgctcat ggaaagtttt agagcgtcct ttcttctttg 300  
 gaaagagatc tattcgatcg gagaaccaat gcaactactt gagtactatt attgcc 356

<210> 1132

<211> 440  
 <212> DNA  
 <213> Zea mays

<400> 1132

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cgccgctccg cgctccgccc tctccctcg gcgcagcgtc tgccagcttc gcttccaagg 60
ggcaccgagg ctctccctgc tccgtgcgaa ggccgcttcc gaggacacat cggcctccgg 120
cgacgagttg atcgaggacc tcaaagcgaa gtgggacgcc gttgaggaca agcccaccgt 180
cctcttgtag ggcgggcgcg ccgtcgtcgc cctatggctg acgtccgtgg tcgtgggcgc 240
catcaacgcc gtgccgctgc tccccaagat cctggagctc gttgggctcg gctacaccgg 300
ctggttcgtg taccgctacc ttctctttaa ggaaagcagg aaagagttgg ccgccgacat 360
tgagaccttg aagaaaaaaaa tagctggaac agaataaacg ctcatggaaa gttttagagc 420
gtcctttctt ctttggaag 440
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<210> 1133  
 <211> 421  
 <212> DNA  
 <213> Zea mays

<400> 1133

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aatccgtggc gctcctcggc ggcgcgcgcc ttcccgccgc tccgcgctcc gccctcctcc 60
ctcggcgcag cgtctgccag ctctcgttcc aagatgcacc gaggtctctcc ctgctccgtg 120
cgaaggccgc ttccgaggac acatcggcct ccggcgacga gttgatcgag gacctcaaag 180
cgaagtggga cgccgttgag gacaagccca ccgtcctctt gtacggcggc ggcgccgtcg 240
tcgccctttg gctgacgtcc gtggtcgtgg gcgccatcaa cgccgtgccg ctgtcccca 300
agatcctgga gctcgttggg ctcggtaca ccggtgggtt cgtgtaccgc taccttctct 360
tcaaggaaag caggaaagag ttggccgccc acattgagac cttgaagaaa aaaatagctg 420
g 421
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<210> 1134  
 <211> 420  
 <212> DNA  
 <213> Zea mays

<400> 1134

ggttctgtag cttccggtac gcttggttaag tggacaaagg cattttccat taatgatgct 60  
 gtaggcgaag atgtggtggc tgaactgcaa acagccatgg agaagcaagg tctggacatg 120  
 catgtagctg cattgattaa tgatgctgtt gggacgctgg cgggagcaag gtactacgac 180  
 aaagatgttg tgcgtggtgt aatatttggc actggcacia acgcagcata tgttgagaag 240  
 gcaaattgcta ttgcaaaatg ggaggggtgag ctgccccatt caggagacat ggtcatcaac 300  
 atggaatggg gtaacttctt ctcatctcat cttcccatca ctgaatatga tcaagaatta 360  
 gataaggaga gcttaaattcc aggagaacag atttacgaga agttaacgtc aggaatgtat 420

<210> 1135  
 <211> 420  
 <212> DNA  
 <213> Zea mays

<400> 1135

agggccatgg aaaggcaggg tcttgatatg aaagttgcag ctctgggttaa tgacactgta 60  
 ggcacattgg ctggtgggag atatgctgat aatgatgttg ttgctgctgt aatattgggc 120  
 actggcacia atgcagctta tgtggaacat gcaaattgca ttcttaaattg gaccgggctg 180  
 ctacctagat cagggaacat ggtaattcaac atggagtgagg gaaacttcag atcagataaa 240  
 cttccaaggt cggagtatga taaatcctta gacttcgaaa gtttgaaccc tggtagagcag 300  
 atatattgaaa agatgatttc tggaatgtat cttggagaaa ttgtccggag gatcctgctg 360  
 aaactggctc atgatgcttc attgtttggg gatgttggtc ctccgaaact ggaacagcta 420

<210> 1136  
 <211> 107  
 <212> DNA  
 <213> Zea mays

<400> 1136

cggacactgg gcgagacgcg tgggtgaagt ttcggcgaga tgttgataga cttcgtgccc 60  
 accgtggcgg gggctctgct agcggaagtg ccggccttac tcaaggc 107

<210> 1137  
 <211> 230  
 <212> DNA  
 <213> Zea mays

<400> 1137

gcgcccacct cctctgctct ctctctctccc ccacctctgc gtccgtgcgt tgtgtttgtt 60  
taggcggcaa ccgcgatgcg caatggcggc cgggcgagag ctggtggtga gtttcggcga 120  
gatgttgata gacttcgtgc ccaccgtggc gggggtctcg ctggcggagg cgccgggctt 180  
cctcaaggcg cccggtggcg cgcccgttaa cgtcgccatc gtggtctcgc 230

<210> 1138

<211> 240

<212> DNA

<213> Zea mays

<400> 1138

cgacgtcgtc ataactggcg cctctatgag tcggcggact gctgccgctg cggcgtccaa 60  
caacctgggtg gtgtcgttcg gcgagatgct gatcgacttc gtccccgacg tggccgtgct 120  
gtcgttgggc gagtcgggcg gcttcgtcaa ggcacccggc ggcgcgcccg ccaacgtcgc 180  
ctgcgccatc gccaaagctcg gcggatcctc cgccttcgta ggcaagttcg gcgacgacga 240

<210> 1139

<211> 300

<212> DNA

<213> Zea mays

<400> 1139

cggaccgtgg cgtcaacgtc gccaaaggacg actccatctt ccacaacgag gagggagccg 60  
acgaaggcgt cgccggcgcc ggtggtgtcg acggtgtcga ccttgaagcc gggcacgctg 120  
cccttgaagt ccttggtgaa gtacctgcat cccttgtccc cgtcggtgac gacgagcagc 180  
ttgagcccgt caaaccacag ggacagcacg ttctcacgcg cgaggtcgtg cccggcatga 240  
tcgtcaccgg gatggaggtc gcagagatcg acggcgcccc gaggatgggc ccgacgttcg 300

<210> 1140

<211> 183

<212> DNA

<213> Zea mays

<400> 1140

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gtcatcaag aggagtgcgg tcttcacta cggatcaata agcttgattg ctgagccttg 120  
 ccggacagca catctccgtg ccatggagat tgccaaagag gcaggtgcac agctctctta 180  
 tga 183

<210> 1141  
 <211> 339  
 <212> DNA  
 <213> Zea mays

<400> 1141

cttcaaagta caacaagttg atacaactgg cgcaggtgac gcgttcgttg gtgctctgct 60  
 ccaaaggatc gttaaagatc catcctcgct acaagatgag aagaagcttg tggagtcgat 120  
 taaattcgct aacgcgtgcg gagcgccac caccacgaag aagggggcga tcccgtcgct 180  
 gccacccgaa gcggaggtct tgcagctaata agagaaggct tagatcatca tcgtcctgta 240  
 cgccatgggtt ttcaccagct tctacttctt cgaattgtat tggattctga tatggaacag 300  
 aagaagaagc ggctgccccca tcttaccagc cctttttgt 339

<210> 1142  
 <211> 310  
 <212> DNA  
 <213> Zea mays

<400> 1142

gcgacgacga gttcggccgc atgctcgccg ccatactccg cgacaacggc gtcgacgacg 60  
 gcggcgctcg cttcgactcc ggcgcgcgca ccggctcgcc ttcgtcacc cgcgcgccga 120  
 cggggagcgc gagttcatgt tctaccgcaa cccagcgcgt gacatgctcg tcaccgccga 180  
 cgagctcaac gtcgagctca tcaagagggc tgcggtcttc cagtacggat cagtaagctt 240  
 gattgctgag ccttgccgga cagcacatct ccgtgccatg gagattgcca aacaggcagg 300  
 tgcactgctc 310

<210> 1143  
 <211> 226  
 <212> DNA  
 <213> Zea mays

<400> 1143

cgacgagttc ggccgcatgc tcgtcgctat cctccgcgac aacggcgctcg acgacggcgg 60  
cgctcgtcttc gactccggcg cgcgcacccg gctcgccttc gtcaccctgc gcgccgacgg 120  
ggagcgcgag ttcatgttct accgcaatcc cagcgcgtgac atgctcctca ccgccgacga 180  
gctcaacgtc gagctcatca agagggctgc ggtcttccac tacgga 226

<210> 1144  
<211> 260  
<212> DNA  
<213> Zea mays

<400> 1144

atccatcctc gctacaagac gagaagaagc ttgtagagtc tattaaattc gctaattgcgt 60  
gtggagcaat caccgccacg aagaaggggtg cgatcccgtc tttgccact gaaactgagg 120  
tcttgcagct aatagagaag gcatagatag atcactgtaa ttgctttggt tttcactagc 180  
ttccacttct gcaaattgca aaatgtattg tattctgac tggaacagaa gaagtgggtg 240  
ctccatctta cctgccattt 260

<210> 1145  
<211> 328  
<212> DNA  
<213> Zea mays

<400> 1145

cccacgcgtc cgcaataagc ttgattgctg agccttgccg gacagcacat ctccgtgcc 60  
tggagattgc caaagaggca ggtgcactgc tctcttatga cccaaacctg agggaggcac 120  
tatggccatc ccgtgaggag gcccgacccc agatcttgag catctgggac caggcagaca 180  
ttgtcaaggt cagcgaagtc gagctcgagt tcttgacagg catcgactcg gtggaggacg 240  
atgttgtcat gaagctgtgg cggcctacca tgaagctgct cctagtgact cttggagatc 300  
aagggtgcaa gtactatgcc agggattt 328

<210> 1146  
<211> 314  
<212> DNA  
<213> Zea mays

<400> 1146

cttgattgct gagccttgcc ggacagcaca tctccgtgcc atggaaattg ccaaagaggc 60  
 tgggtgcaactg ctctctttacg acccaaacct gagggaggca ctttggccat cccgtgagga 120  
 ggcccgccacc cagatcttga gcatctggga ccaggcagat atcgtcaagg tcagcgaagt 180  
 cgagcttgag ttcttgacag gcatcaactc agtggaggac gatgttgtca tgaagctgtg 240  
 gcgacctacc atgaagctgc tcctgggtgac tcttggagat caaggatgca agtactatac 300  
 cagggatttc catg 314

<210> 1147  
 <211> 286  
 <212> DNA  
 <213> Zea mays

<400> 1147

ccggacagca catctccgtg ccatggagat tgccaaagag gcaggtgcac tgctctctta 60  
 tgacccaaac ctgagggagg cactatggcc atcccgtgaa gagggccgca cccagatctt 120  
 gagcatctgg gaccaggcag acattgtcaa ggtcagcgaa gtcgagctcg agttcttgac 180  
 aggcacgcac tcggtggagg acgatgttgt catgaagctg tggcggccta ccatgaagct 240  
 gctcctagtg actcttgagg atcaaggggtg caagtactat gccagg 286

<210> 1148  
 <211> 272  
 <212> DNA  
 <213> Zea mays

<400> 1148

cggacgcgtg gtggagattg ccaaagaggc aggtgcaactg ctctcttatg acccaaacct 60  
 gaggacggca ctatggccat cccgtgagga ggcccgccacc cagatcttga gcatctggga 120  
 ccaggcagac attgtcaagg tcagcgaagt cgagctcgag ttcttgacag gcatcgactc 180  
 ggtggaggac gatgttgtca tgaagctgtg gcggcctacc atgaagctgc tcctagtgc 240  
 tcttggagat caagggtgca agtactatgc ca 272

<210> 1149  
 <211> 286  
 <212> DNA  
 <213> Zea mays

<400> 1149

agctcaacgt cgagctcatc aagagggctg cgggtcttcca ctacggatca ataagcttga 60

ttgctgagcc ttgccggaca gcacatctcc gtgccatgga gattgccaaa gaggcaggtg 120

cactgctctc ttatgaccca aacctgaggg aggcactatg gccatcccgt gaggaggccc 180

gcacccagat cttgagcatc tgggaccagg cagacattgt caaggtcagc gaagtcgagc 240

tcgagttctt gacaggcatc gactcgggtg aggacgatgt tgtcat 286

<210> 1150  
 <211> 263  
 <212> DNA  
 <213> Zea mays

<400> 1150

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cgtgccatgg aaattgccaa agaggctggt gcactgctct cttacgaccc aaacctgagg 120

gaggcacttt ggccatcccg gaggaggccc gcacccagat cttgagcatc tgggaccagg 180

cagatatcgt caaggtcagc gaagtcgagc ttgagttctt gacaggcatc aactcagtgg 240

aggacgatgt tgtcatgaag ctg 263

<210> 1151  
 <211> 297  
 <212> DNA  
 <213> Zea mays

<400> 1151

aggtggagga cgatgttgtc atgaagctgt ggcggcctac catgaagctg ctctagtga 60

ctcttgagga tcaaggggtgc aagtactatg ccagggattt ccatggcgct gtgccttctt 120

tcaaagtaca acaagttgat acaactggcg caggtgacgc gttcgttggt gctctgctcc 180

aaaggatcgt taaagatcca tcctcgctac aagatgagaa gaagcttggt gagtcgatta 240

aattcgctaa cgcgtgcgga gcgatcacca ccacgaagaa gggggcgatc tcgtcgc 297

<210> 1152  
 <211> 293  
 <212> DNA  
 <213> Zea mays



<400> 1152

caggcatcga ctcggtggag gacgatgttg tcatgaagct gtggcggcct accatgaagc 60

tgctcctagc gactccttgta gatcaagggt gcaagtacta tgccagggat ttccatggcg 120

ctgtgccttc cttcaaagta caacaagttg atacaactgg cgcaggtgac gcgttcgttg 180

gtgctctgct ccaaaggatc gttaaagatc catcctcgct acaagatgag aagaagcttg 240

tggagtcgat taaattcgct aacgcgtgcg gagcgatcac caccacgaag aag 293

<210> 1153

<211> 286

<212> DNA

<213> Zea mays

<400> 1153

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ctagtgactc ttggagatca agggtgcaag tactatgccca gggatttcca tggcgctgtg 120

ccttccttca aagtacaaca agttgatcaa ctggcgcagg tgacgcgttc gttggtgctc 180

tgctccaaag gatcgtaaa gatccatcct cgctacaaga tgagaagaag cttgtggagt 240

cgattaaatt cgctaacgcg tgcggagcga tcaccaccac gaagaa 286

<210> 1154

<211> 276

<212> DNA

<213> Zea mays

<400> 1154

gagaagaagc ttgtggagtc gatggatcct taacgatcct ttggagcaga gcaccaacga 60

acgcgtcacc tgcgccagtt gtatcaactt gttgtacttt gaaggaaggc acagcgccat 120

ggaaatccct ggcatagtac ttgcaccctt gatctccaag agtcactagg agcagcttca 180

tggtagaccg taacagcttc atgacaacat cgtcctccac cgagtcgatg cctgtcaaga 240

actcgagctc gacttcgctg accttgacaa tgtctg 276

<210> 1155

<211> 276

<212> DNA

<213> Zea mays

<220>  
 <221>       unsure  
 <222>       (1)..(276)  
 <223>       unsure at all n locations  
  
 <400>       1155  
  
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 ttgctgagcc ttgccggaca gcacatctcc gtgccatgga gattgccana gaggcaggtg   120  
 cactgctctc ttatgaccca aacctgaggg aggcactatg gcaatcccgt gaggaggccc   180  
 gcaccagatc ttgagcatct gggacaggca gacattgtca aggtcaacga gtcgagctcg   240  
 agtcttgaca ggatcgactc ggtggaggcg atgttg                               276

<210>       1156  
 <211>       230  
 <212>       DNA  
 <213>       Zea mays

<400>       1156  
  
 agcacatctc cgtgccatgg agattgccaa agaggcaggt gcactgctct cttatgaccc   60  
 aaacctgagg gaggcactat ggccatcccc tgaggaggcc cgcacccaga tcttgagcat   120  
 ctgggaccag gcagacattg tcaaggtcag cgaagtcgag ctcgagttct tgacaggcat   180  
 cgactcggtg gagtacgatt ttgtcatgaa gctggggcgg cctaccatga               230

<210>       1157  
 <211>       294  
 <212>       DNA  
 <213>       Zea mays

<400>       1157  
  
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 gacgagttcg ggcacatgct ggtgaacatc ctgaagcaga acaacgtgaa ctcgaggagg   120  
 tgcctgttcg acaagcacgc gcggacggcg ctggccttcg tgacgctcaa gcacgacggg   180  
 gagcgcgagt tcatgttcta caggaacccg agcgcggaca tgctgctgac ggaggcggat   240  
 ctggacctgg gcctggtgcg gcgcgccagg gtgttccact acggctccat ctcg               294

<210>       1158  
 <211>       299

<212> DNA  
 <213> Zea mays  
 <400> 1158  
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 tggacctggg cctgggtgcg cgcgccaggg tgttccacta cggctccatc tcgctcatct 180  
 ccgagccgtg ccgctcggcg cacatggccg ccatgcgcgc agccaaggcg gcgggcgtgc 240  
 tctgctccta cgacccaac gtgcgcctcg cgctctggcc gtcagccgac agcgcacgc 299  
 <210> 1159  
 <211> 255  
 <212> DNA  
 <213> Zea mays  
 <400> 1159  
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 accaccggcg ccggcgacgc cttcgtcggc tccctcctcg tcaacgtcgc caaggacgac 120  
 tccatcttcc acaacgagga gaagctccgc gaggtctca agttctcaa cgctgcggc 180  
 gccatctgca ccaccaagaa gggcgccatc ccggcgctgc ccacggtcgc caccgcccag 240  
 gacctcatcg ccaag 255  
 <210> 1160  
 <211> 326  
 <212> DNA  
 <213> Zea mays  
 <400> 1160  
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 acgaggtggc cttcctcacg cgcggggacg ccaacgacga gaagaacgtg ctgtccctgt 120  
 ggtttgacgg gctcaagctg ctcgtcgtca ccgacgggga caagggatgc aggtacttca 180  
 ccaaggactt caagggcagc gtgcccggct tcaaggtcga caccgtcgac accaccggcg 240  
 ccggcgacgc cttcgtcggc tccctcctcg tcaacgtcgc caaggacgac tccatcttcc 300  
 acaacgagga gaagctccgc gaggcc 326

<210> 1161  
 <211> 297  
 <212> DNA  
 <213> Zea mays  
  
 <400> 1161  
  
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 acccgagcgc ggacatgctg ctgacggagg cggagctgga cctgggcctg gtgcggcgcg 120  
 ccaggggtgtt ccactacggc tccatctcgc tcatctccga gccgtgccgc tcggcgcaca 180  
 tagccgccat gcgcgcagcc aaggccgcgg gcgtgctctg ctctacgac cccaacgtgc 240  
 gcctcgcgct ctggccgtcg cccgacgccg cacgcgaggg catcctcagc atctgga 297

<210> 1162  
 <211> 235  
 <212> DNA  
 <213> Zea mays  
  
 <400> 1162  
  
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 gggcagcgtg cccggcttca aggtcgacac cgtcgacacc accggcgccg gcgacgcctt 120  
 cgtcggctcc ctctcgtca acgtcgccaa ggacgactcc atcttcaca acgaggagaa 180  
 gctccgcgag gctctcaagt tctccaacgc ctgcgtggcc atctgcacca ccaag 235

<210> 1163  
 <211> 347  
 <212> DNA  
 <213> Zea mays  
  
 <220>  
 <221> unsure  
 <222> (1)..(347)  
 <223> unsure at all n locations  
  
 <400> 1163  
  
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 atcctcagca tctggaagga ggccgactac atcaaggtca gcgacgacga ggtggccttc 120  
 ctcacgcgcg gggacgcaa cgacgagaag aacgtgctgt ccctgtggtt tgacgggctc 180  
 aagctgctcg tcgtcaccga cggggacaag ggatgcaggt acttcaccaa ggacttcaag 240

ggcagcgtgc ccggcttcaa ggtcgacacc gtcgacacca ccggcgccgg cgacgccttc 300  
 gtcggctcac tcctcgtaa cgtcgccaag gacgactcca tcttcca 347

<210> 1164  
 <211> 262  
 <212> DNA  
 <213> Zea mays

<220>  
 <221> unsure  
 <222> (1)..(262)  
 <223> unsure at all n locations

<400> 1164

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 cagcgtgccc ggcttcaagg tcgacaccgt cgacaccacc ggcgccggcg acgccttcgt 120  
 cggtccctc ctcgtcaacg tcgccaagga cgactccatc ttccacaacg aggagaagct 180  
 ccgcgaggct ctcaagttct ccaacgcctg cgaggncatc tgcaccacca agaagggcgc 240  
 catccccggcg ctgcccacgg tc 262

<210> 1165  
 <211> 291  
 <212> DNA  
 <213> Zea mays

<220>  
 <221> unsure  
 <222> (1)..(291)  
 <223> unsure at all n locations

<400> 1165

gaacgtgctg nccctgnggt ttgacgggct caagctgctc gtcgtcaccg acggggacaa 60  
 aggatgcagg tacttcacca aggacttcaa gggcagcgtg cccggcttca aggtcgacac 120  
 cgtcgacacc accggcgccg gcgacgcctt cgtcggtcc ctcctcgtaa acgtcgccaa 180  
 ggacgactcc atcttcaca acgaggagaa gctcnggatg ntctcaagtt ctccaacgcc 240  
 tgcggcgcca tctgcaccac caagaagggc gccatncgg cgtgcccان g 291

<210> 1166  
 <211> 371  
 <212> DNA

<213> Zea mays  
 <400> 1166

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cggcggactg gacctggggc tgggtgcggc cgccaggtgt tccactacgg ctccatctcg 60
ctcatctccg agccgtgccg ctcgggcgac atggccgcca tgcgcgcacc aaggccgcgg 120
gcggtgctctg ctectacgac cccaacgtgc gcctcccgtc ctggccgtcg cccgacgccg 180
cacgcgaggg catcctcagc atctggaagg aggcgcgactt catcaaggtc agcgacgacg 240
aggtggcctt cctcacgcgc ggggacgcca acgacgagaa gaacgtgctg tccctgtggt 300
ttgacgggct caagctgctc gtcgtcaccg acggggacaa gggatgcagg tagcttcacc 360
aagacttcaa g 371

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<210> 1167  
 <211> 310  
 <212> DNA  
 <213> Zea mays

<220>  
 <221> unsure  
 <222> (1)..(310)  
 <223> unsure at all n locations

<400> 1167

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ggcggcgcg cccccaacgt cgctgcgcc atcgccaagc tcggcggatc ctccgccttc 120
gtaggcaagt tcggcgacga cgagttcggg cacatgctgg tgaacatcct gaagcagaac 180
aacgtgaacg cggacgggtg cctgttcgac aagcacgcgc ggacggcgct ggggttcgtg 240
acgtcaagc agtacgggga gcgcgagttc atgttctaca ngaacccgag cgacgacatg 300
ctgctgacgg 310

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<210> 1168  
 <211> 280  
 <212> DNA  
 <213> Zea mays

<400> 1168

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cccacgcgtc cgtcgacaag cacgcgcgga cggcgctggc cttcgtgacg ctcaagcacg 60
acggggagcg cgagttcatg ttctacagga acccgagcgc ggacatgctg ctgacggagg 120

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cggagctgga cctgggcctg gtgcggcgcg ccagggtgtt ccactacggc tccatctcgc 180  
 tcatctccga gccgtgccgc tcggcgacaca tggccgccat gcgcgcagca aggccgcggg 240  
 cgtgctctgc tcctacgacc ccaacgtgcg cctcgcgctc 280

<210> 1169  
 <211> 311  
 <212> DNA  
 <213> Zea mays

<400> 1169

cccacgcgtc cgcccacgcg tccggatgca ggtacttcac caaggacttc aagggcagcg 60  
 tgcccggctt caaggtcgac accgtcgaca ccaacggcgc cggcgacgcc ttcgtcggct 120  
 ccctcctcgt caacgtcgcc aaggacgact ccatcttcca caacgaggag aagctccgcg 180  
 aggctctcaa gttctccaac gcctgcagcg ccatctgcac caccaagaag ggcgccatcc 240  
 cggcgctgcc cacggtcgcc accgcccagg acctcatcgc caaggccaac tagatggccg 300  
 cacaccccg c 311

<210> 1170  
 <211> 266  
 <212> DNA  
 <213> Zea mays

<400> 1170

cgaggtggcc ttcctcacgc gcggggacgc caacgacgag aagaacgtgc tgtccctgtg 60  
 gtttgacggg ctcaagctgc tcgtcgtcac cgacggggac aagggatgca ggtacttcac 120  
 caaggacttc aagggcagcg tgcccggctt caaggtcgac accgtcgaca ccaccggcgc 180  
 cggcgacgcc ttcgtcggct ccctcctcgt caacgtcgcc aaggacgact ccatcttcca 240  
 caacgaggag aagctccgcg agggcc 266

<210> 1171  
 <211> 272  
 <212> DNA  
 <213> Zea mays

<400> 1171

acttcaccaa ggacttcaag ggcagcgtgc ccggcttcaa ggtcgacacc gtcgacacca 60

ccggcgccgg cgacgccttc gtcggctccc tctcgtcaa cgtcgccaag gacgactcca 120  
 ttttccacaa cgaggagaag ctccgcgagg ctctcaagtt ctccaacgcc tgcagcgcca 180  
 tctgcaccac caagaagggc gccatcccgg cgtcgccac ggtcgctacc gccaggacc 240  
 tcatcgccaa ggccaactag atggccgcac gc 272

<210> 1172  
 <211> 275  
 <212> DNA  
 <213> Zea mays

<400> 1172  
 aaggacttca agggcagcgt gccggcttc aaggctgaca cgtcgacac caccggcgcc 60  
 ggcgacgcct tcgtcggctc cctcctcgtc aacgtcgcca aggacgactc catctttcac 120  
 aacgaggaga agctccgcga ggccctcaag ttctccaacg cctgcggggc atctgcacca 180  
 ccaagaaggg cgccatcccg gcgctgcca cggctgccac cgcccaggac ctcatcgcca 240  
 aggccaacta gatggccgca cgccccgccc ttcca 275

<210> 1173  
 <211> 300  
 <212> DNA  
 <213> Zea mays

<400> 1173  
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 caagggatgc aggtacttca ccaaggactt caagggcagc gtgcccggt tcaaggtega 120  
 caccgtcgac accaccggcg ccggcgacgc cttegtcggc tccctcctcg tcaacgtcgc 180  
 caaggacgac tccatcttcc acaacgagga gaagctccgc gaggcctca agttctccaa 240  
 cgctgcgtg gccatctgca ccaccaagaa gggcgccatc ccggcgctgc ccacggtcgc 300

<210> 1174  
 <211> 277  
 <212> DNA  
 <213> Zea mays

<400> 1174  
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tgctgacgga ggcggagctg gacctggggc tggcgcggcg cgccaggggtg ttccactacg 120  
gctccatctc gctcatctcc gagccgtgcc gctcggcgca catggccgcc atgcgcgcag 180  
caaggccgcg ggcgtgctct gctcctacga ccccaacgtg cgctccccgc tctggccgtc 240  
gcccgcgcgc gcacgcgagg gcatcctcag catctgg 277

<210> 1175

<211> 279

<212> DNA

<213> Zea mays

<400> 1175

gagcagcgtg cccggcttca aggtcgacac cgtcgacacc accggcgccg gcgacgcctt 60  
cgtcggctcc ctctcgtca acgtcgccaa ggacgactcc atcttcaca acgaggagaa 120  
gctccgcgag gctctcaagt tctccaacgc ctgcgaggcc atctgcacca ccaagaaggg 180  
cgacacaccg gcgctgcca cggtcgccac cgcccaggac ctcatcgcca aggccaacta 240  
gatggccgca cgccccgcg ttccaccacg tcaactgtcc 279

<210> 1176

<211> 292

<212> DNA

<213> Zea mays

<400> 1176

gcgagggcat cctcagcatc tggaaggagg ccgacttcat caaggtcagc tacgacgagg 60  
tggccttctt cacgcgcggg gacgccaacg acgagaagaa cgtgctgtcc ctgtggtttg 120  
acgggctcaa gctgctcgtc gtcaccgacg gggacaaggg atgcaggtac ttcaccaagg 180  
acttcaaggg cagcgtgccc ggcttcaagg tcgacaccgt cgacaccacc ggcgcccggcg 240  
acgccttcgt cggctccctc ctcgtaacg tcggcaagga cgactccatc tt 292

<210> 1177

<211> 288

<212> DNA

<213> Zea mays

<400> 1177

aaggacttca agggcagcgt gcccggttc aaggtcgaca ccgtcgacac caccggcgcc 60

ggcgacgcct tcgtcggtc cctcctcgtc aacgtcgcca aggacgactc catcttccac 120  
aacgaggaga agctccgcga ggccctcaag ttctccaacg cctgcggggc atctgcacca 180  
ccaagaaggg cgccatcccg gcgctgccc aagtcgccac cgcccaggac ctcatcgcca 240  
aggccaacta gatggccgca cgccccgcg ttccaccacg tcaactgtc 288

<210> 1178  
<211> 272  
<212> DNA  
<213> Zea mays

<400> 1178

cccacgcgtc cgacgagttc gggcacatgc tggatgaacat cctgaagcag aacaacgtga 60  
acgcggaggg gtgcctgttc gacaagcacg cgcggacggc gctggccttc gtgacgtca 120  
agcacgacgg ggagcgcgag ttcatgttct acaggaaccc gagcgcggac atgtgtgtga 180  
cggaggcgga gctggacctg ggcctggtgc ggcgcgccag ggtgttccac tacggctcca 240  
tctcgtcat ctccgagccg tgccgctcgg cg 272

<210> 1179  
<211> 225  
<212> DNA  
<213> Zea mays

<400> 1179

gtgaactcgg aggggtgcct gttcgacaag cagcgcggga cggcgtggc cttcgtgacg 60  
ctcaagcacg acggggagcg cgagttcatg ttctacagga acccgagcgc ggacatgctg 120  
ctgacgaagg cgaacctgaa cttgggcttg ttccgcgcgc caaggtgttc cactacggct 180  
ccatctcggc catcttcgag ccgtgccgct cggcgaaaat ggccg 225

<210> 1180  
<211> 243  
<212> DNA  
<213> Zea mays

<400> 1180

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gacgagaaga acgtgctgtc cctgtggttt gacgggctca agctgctcgt cgtcaccgac 120

ggggacaagg gatgcaggta cttcaccaag gacttcaagg gcagcgtgcc cggcttcaag 180  
 gtcgacaccg tcgacaccac gggcgccggc gacgccttcg tcggctccct cctcgtcaag 240  
 gtc 243

<210> 1181  
 <211> 286  
 <212> DNA  
 <213> Zea mays

<400> 1181

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 cgcgagggca tcctcagcat ctggaaggag gccgacttca tcaaggtcag cgacgacgag 120  
 gtggccttcc tcacgcgccc cgacgccaac gacgagaaga acgtgctgtc cctgtggttt 180  
 gacgggctca agctgctcgt cgtcaccgac ggggacaagg gatgcaggta cttcaccaag 240  
 gacttcaagg gcagcgtggc ccgcttcaag gtcgacaccg tcgaca 286

<210> 1182  
 <211> 265  
 <212> DNA  
 <213> Zea mays

<400> 1182

cgctcatctc cgagccgtgc cgctcggcgc acatggccgc catgcgcgca ccaaggcggc 60  
 gggcgtgctc tgctcctacg accccaacgt gcgcctcccg ctctggccgt cgcccgacgc 120  
 cgacgcgag ggcattctca gcatctggaa ggaggccgac ttcattcaagg tcagcgacga 180  
 cgaggtggcc ttctcacgc gcggggacgc caacgacgag aagaacgtgc tgtccctgtg 240  
 gtttgacggg ctcaagctgc tcgtc 265

<210> 1183  
 <211> 276  
 <212> DNA  
 <213> Zea mays

<400> 1183

cccaaggact tcaagggcag cgtgccccgc ttcaaggctg acaccgtcga caccaccggc 60  
 gccggcgacg ccttcgtcgg ctccctcctc gtcaacgtcg ccaaggacga ctccatcttc 120

cacaacgagg agaagctccg cgaggccctc aagttctcca acgcctgcgg gccatctgca 180  
ccaccaagaa gggcgccatc ccggcgctgc ccacggctgc caccgcccag gacctcatcg 240  
ccaaggccaa ctagatggcc gcacgccccg cggttc 276

<210> 1184  
<211> 336  
<212> DNA  
<213> Zea mays

<400> 1184

gaacgtgctg tccctgtggt ttgacgggct caagctgctc gtcgtcacgc ggggacaagg 60  
gatgcaggta cttaccaag gacttcaagg gcagcgtgcc cggcttcaag gtcgacaccg 120  
tcgacaccac cggcgccggc gacgccttcg tcggctcccc tctcgtcaa cgtcgccaag 180  
gacgactcca tcttcacaa cgaggagaag ctccgcgagg ctctcaagtt ctccaacgcc 240  
tgcgtggcca tctgcaccac caagaagggc gccatcccgg cgctgccac ggtcgcttac 300  
gcccaggacc tcatcgccaa ggccaactag atggcc 336

<210> 1185  
<211> 329  
<212> DNA  
<213> Zea mays

<400> 1185

gcgcggacat gctgctgacg gaggcggact ggacctgggc ctggtgcggc gcgccacggt 60  
gttccactac ggctccatct cgctcatctc cgagccgtgc cgctcggcgc acatggccgc 120  
catgcgcgca ccaaggccgc gggcgtgctc tgctcctacg acttcatcaa ggtcagcgac 180  
gacgaggtgg ccttcctcac gcgcggggac gccaacgacg agaagaacgt gctgtccctg 240  
tggtttgacg gctcaagctg ctcgctgtca ccgacgggga caagggatgc aggtacttca 300  
ccaaggactt caagggcagc gtgccccgc 329

<210> 1186  
<211> 237  
<212> DNA  
<213> Zea mays

<400> 1186

gccccatgcg cgcaccaagg ccgcggggcgt gctctgctcc tacgacccca acgtgcgctt 60  
 cccgctctgg ccgtcgcccg acgccgcacg cgagggcatc ctcagcatct ggaatgaggg 120  
 cgacttcacg aaggtcagcg acgacgaggt ggccttcctc acgcgcgggg acgccaacga 180  
 cgagaagaac gtgctgtccc tgtggtttga cgggctcaag ctgctcgctg tcaccga 237

<210> 1187  
 <211> 196  
 <212> DNA  
 <213> Zea mays

<400> 1187

cccacgcgtc cgcccacgcy tccgcgactt catcaaggct agcgacgacg aggtggcctt 60  
 cctcacgcgc ggggacgcca acgacgagaa gaacgtgctg tccctgtggt ttgacgggct 120  
 caagctgctc gtcgtcaccg acggggacaa gggatgcagg tacttcacca aggacttcaa 180  
 gggcagcgtg cccggc 196

<210> 1188  
 <211> 283  
 <212> DNA  
 <213> Zea mays

<400> 1188

cgtcaacgct gccaaaggac actccatctt ccacaacgag gagaagctcc gcgaggctct 60  
 caagttctcc aacgcctgcy gcgccatctg caccaccaag aagggcgcca tcccggcgct 120  
 gccacggctc gccaccgccc aggacctcat cgccaaggcc aactagatgg ccgcacgccc 180  
 cgccgttcca ccacgtcact gtcccccgcc gcccgcgccc tcgtcgctga cgtcctcggt 240  
 ttcggttcat taggtagatc gagtcttagc gtccgtctct gcg 283

<210> 1189  
 <211> 171  
 <212> DNA  
 <213> Zea mays

<400> 1189

gaacaacgta tacgcggagg ggtgcctggt cgacaagcac gcgcggacgg gctggccttc 60  
 gtgacgctca agcacgacgg ggagcgcgag ttcattgtct acaggaaccc gagcgcggac 120

atgctgctga cggaggcgga ctggtacctg ggcctggtgc ggcgcgccag g 171

<210> 1190  
 <211> 267  
 <212> DNA  
 <213> Zea mays

<400> 1190

ggacgactcc atcttccaca acgaggagaa gctccgcgag gccctcaagt tctccaacgc 60  
 ctgcggcgcc atctgcacca ccaagaaggg cgccatcccc gcgctgcca cggtcgccac 120  
 cgcccaggac ctcatcgcca aggccaacta gatggccgca tgccccgcgc ttccaccacg 180  
 tcaactgtccc ccgccgcccc gccctcgtc gtcgacgtcc tcggtttcgg ttcattaggt 240  
 agatcgagtc ttagcgtcgc tctctgc 267

<210> 1191  
 <211> 201  
 <212> DNA  
 <213> Zea mays

<400> 1191

ccgacttcat caaggtcagc gacgacgagg tggccttctt cagcgcgggg gacgccaacg 60  
 acgagaagaa cgtgctgtcc ctgtggtttg aagggtcaa gctgctcgtc gtcaccgacg 120  
 gggacaaggg atgcaggtac ttcaccaagg acttcaaggg cagcgtgccc ggcttcaagg 180  
 tcgacaccgt cgacaccacc g 201

<210> 1192  
 <211> 272  
 <212> DNA  
 <213> Zea mays

<400> 1192

caacggcagc gtgcccggct tcaaggtega caccgtcgac accaccggcg ccggcgacgc 60  
 cttcgtcggc tccctcctcg tcaacgtcgc caaggacgac tccatcttcc acaacgagga 120  
 gaagctccgc gaggcctca agttctccaa cgctgcggc gccatctgca ccaccaggaa 180  
 gggcgccatc ccggcgctgc tgcaggtegc caccgcccag gacatcatcg ccaaggccaa 240  
 ctagatggcc gcacgcaccg ccgttccacc ac 272

<210> 1193  
 <211> 307  
 <212> DNA  
 <213> Zea mays

<400> 1193

ctgcgagggc tctcaagttc tccaacgcct gcaggccatc tgcaccacca agaagggcgc 60  
 catcccggcg ctgcccacgg tcgccaccgc ccaggacctc atcgccaagg ccaactagat 120  
 ggccgcacgc ccgccgttcc accacgtcac tgtccccctc gtcgtcgacg tcctcggttt 180  
 cggttcatta ggtagatcga gtcttagcgt ccgtctctgc gcctctacgc tgagacgggt 240  
 tgtttgggtt aattaagtta gctttcgtgg agatttcgcc ccggggcatc aaataaaatg 300  
 ttggcat 307

<210> 1194  
 <211> 306  
 <212> DNA  
 <213> Zea mays

<400> 1194

ggcggactgc tgccgcggcg gcgtccaaca acctgggtgg gtcgttcggc gagatgctga 60  
 tcgacttcgt ccccgacgtg gccgggctgt cgctggccga gtcgggctgc ttogtcaagg 120  
 cacccgggcg cgcgcccgcc aacgtcgcct gcgccatcgc caagctcggc ggatcctccg 180  
 ccttcgtagg caagttctgc gacgacgagt tcgggcacat gctggtgaac atcctgaagc 240  
 agaacaacgt gaacgcggag gggtgccctgt tcgacaagca cgcgtggacg gcgctggcct 300  
 tcgtga 306

<210> 1195  
 <211> 314  
 <212> DNA  
 <213> Zea mays

<400> 1195

cgcctcgctt tcccttcccc accagcccgt ctctctcttc tctctgactc tctctctcgt 60  
 agccgcgtcc acctcgcagc agcaagcaag cgcgaccaa tggcgccctt aggagacggc 120  
 ggagctgctg ccgcggcggc gtccaacaac ctggtgggtg cgttcggcga gatgctgac 180

gacttcgtcc cgcacgtggc cgggctgtcg ctggccgagt cgggcggctt cgtcaaggca 240  
 cccggcggcg cgcccgccaa cgtcgctgc gccatcgtca agctcggcg atcctccgcc 300  
 ttcgtaggca agtt 314

<210> 1196  
 <211> 308  
 <212> DNA  
 <213> Zea mays  
 <400> 1196

cacctgcct tccctcccc accagcccc gtctctctct ctctctctct gtctctctct 60  
 cgtagccgcy tccatctgc agcagcaagc aagcgcgacc aaatggcgcc tctaggagac 120  
 ggcggactgc tgccgcgcy gcgccaaca acctgggtgt gtcgttcggc gagatgctga 180  
 tcgacttcgt ccccgacgtg gccgggctgt cgtcggccga gtcgggcggc ttcgtcaagg 240  
 caccggcgcy cgcgcccgc aacgtgcct gcgccatgc caagctcggc ggaatctccg 300  
 ccttcgta 308

<210> 1197  
 <211> 279  
 <212> DNA  
 <213> Zea mays  
 <400> 1197

cgtctctctc tctctctctc tgtctctctc tcgtagccgc gtccatctcg cagcagcaag 60  
 caagcgcgac caaatggcgc ctctaggaga cggcggagct gctgccgcy cggcgtccaa 120  
 caacctggtg gtgtcgctcg gcgagatgct gatcgacttc gtccccgacg tggccgggct 180  
 gtcgctggcc gagtcggcg gcttcgtcaa ggcaccggc ggcgcgccg ccaacgtcgc 240  
 ctgcgccatc gccaaactcg gcggatcctc cgccttcgt 279

<210> 1198  
 <211> 331  
 <212> DNA  
 <213> Zea mays  
 <400> 1198

cccacgcgtc cgcgcctcgc cttcccttcc ccaccagccc ccgtctctct ctctctctct 60



ctgtctctct ctcgtagccg cgtccatctc gcagcagcaa gcaagcgcga ccaaattggcg 120  
cctctaggag acggcggagc tgctgccgcg gcggcgcca acaacctggg ggtgtcgttc 180  
ggcgagatgc tgatcgactt cgtccccgac gtggccgggc tgctcgtggc cgagtcgggc 240  
ggcttcgtca aggcacccgg cggcgcgcc gccaacgtcg cctgcgccat cgtcaagctc 300  
ggcggatcct ccgccttcgt aggcaagttc g 331

<210> 1199  
<211> 299  
<212> DNA  
<213> Zea mays

<400> 1199

gcctcgctt ccttcccc ccagccccg tctctctctc tctctctctg tctctctctc 60  
gtagccgct ccatctcgca gcagcaagca agcgcgacca aatggcgct ctaggagacg 120  
gcggagtgt gccgcggcg cgtccaacaa cctgggtggg tcgttcggcg agatgctgat 180  
cgacttcgt cccgacgtgg ccgggctgtc gctggccgag tcgggcggt tcgtcaaggc 240  
acccggcggc gcgtcgcca acgtcgctg cgccatcgcc aagctcggc gatcctccg 299

<210> 1200  
<211> 276  
<212> DNA  
<213> Zea mays

<400> 1200

cgtctctctc tctctctct ctgactctct ctctcgtagc cgcgtccacc tcgcagcagc 60  
aagcaagcgc gaccaaattg cgcctctagg agacggcgga gctgctgccc cggcggcgtc 120  
caacaacctg gtggtgtcgt tcggcgagat gctgatcgac ttcgtccccg acgtggccgg 180  
gctgtcgtg gccgagtcgg gcggcttcgt caaggccccc ggcggcgcgc acgccaacgt 240  
cgctgcgcc atcgccaagc tcggcggtc ctccgc 276

<210> 1201  
<211> 278  
<212> DNA  
<213> Zea mays

<400> 1201

cccacgcgtc cgcccacgcg tccgcctcgc cttcccttcc ccaccagccc ccgtctctct 60  
ctctctctct ctgtctctct ctcgtagccg cgtccatctc gcagcagcaa gcaagcgcg 120  
ccaaatggcg cctctaggag acggcggact gctgccgcgg cggcggtccaa caacctggtg 180  
gtgtcgttcg gcgagatgct gatcgacttc gtccccgacg tggccggggt gtcgctggcc 240  
gagtcggggcg gcttcgtcaa ggcacccggc ggcgcgcc 278

<210> 1202  
<211> 190  
<212> DNA  
<213> Zea mays

<220>  
<221> unsure  
<222> (1)..(190)  
<223> unsure at all n locations

<400> 1202

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ggcggantgc tgccgcggcg gcgtccaaca acctggtggt gtcgttcggc gagatgctga 120  
tcgacttcgt ccccgacgtg gccgggctgt cgctggccga gtcggggcgcc ttcgtcaagg 180  
caccggcgcg 190

<210> 1203  
<211> 275  
<212> DNA  
<213> Zea mays

<400> 1203

agcacaatcg cctcgcttcc ccttccccac cagcccccggt ctctctctct cttctctctg 60  
actctctctc tcgtagccgc gtccacctcg cagcagcatg caagcgcgac caaatggcg 120  
ctctaggaga cggcggagct gctgccgcgg cggcggtccaa caacctggtg gtgtcgttcg 180  
gcgatatgct gatcgacttc gtccccgacg tggccggggt gtcgctggcc gagatcggcg 240  
gcttcgtcaa ggcccccggt ggcgcgctcg ccaac 275

<210> 1204  
<211> 316  
<212> DNA

<213> Zea mays

<400> 1204

gtctctctct tctctctgac tctctctctc gtagccgcgt ccacctcgca gcagcaagca 60  
agcgcgacca gatggcgctt ctaggagacg gcggagtgtt gccgcggcgg cgtccaacaa 120  
cctggtggtg tcgttcggcg agatgctgat cgacttcgtc cccgacgtgg ccgggctgtc 180  
gctggccgag tcgggcggct tcgtcaaggc attcggcggc gcgcccga acgtcgctgt 240  
cgacatcgcc aagctcggcg gatcctccgc cttcgtaggc aagttcggcg acgacgagtt 300  
cgggcacatg ctggtg 316

<210> 1205

<211> 247

<212> DNA

<213> Zea mays

<400> 1205

ctctctctct cgtagccgcg tccacctcgc agcagcaagc aagcgcgact aaatggcgctc 60  
tctaggagac ggtggactgc tgctgcggcg gcgtccaaca atctggtggt gtcgttcggc 120  
gagatgctga tcgacttcgt ccccgacgtg gctgggctgt cgctggccga ttcgggcggc 180  
ttcgtcaagg caccctgcgg cgcgctcgtt aatgtcgctt tcgccatcgc caagctcggc 240  
ggatcct 247

<210> 1206

<211> 418

<212> DNA

<213> Zea mays

<400> 1206

cgacgagctc aacgtcgagc tcatcaagag ggctgcggtc ttccactacg gatcagggag 60  
cttgattgct gagccttgcc ggacagcaca tctccgtgcc atggagattg ccaaagaggc 120  
aggtgcactg ctctcttatg acccaaacct gagggaggca ctatggccat cccgtgagga 180  
ggcccgaccc cagatcttga acatctggga ccaggcagac attgtcaagg tcagcgaagt 240  
cgagctcgag ttcttgacaa gcacgcactc ggtggaggac gatgttgtca tgaagctgtg 300  
gcggcctacc atgaagctgc tcctagtgc tcttgagat caagggtgca agtactatgc 360

cagggatttc catggcgctg tgccttcctt caaagtacaa caagttgata caactggc 418

<210> 1207  
 <211> 295  
 <212> DNA  
 <213> Zea mays

<400> 1207

cgacgagctc aacgtcgagc tcatcaagag ggctgcggtc ttccactacg gatcaataag 60  
 cttgattgct gagccttgcc ggacagcaca tctccgtgcc atggagattg ccaaagagggc 120  
 aggtgcactg ctctcttatg acccaaacct gagggaggca ctatggccat cccgtgagga 180  
 ggcccgccacc cagatcttga gcatctggga ccaggcagac attgtcaagg tcagcgaagt 240  
 cgagctcgag ttcttgacag gcatcgactc ggtggaagac gatgttgtca tgaag 295

<210> 1208  
 <211> 439  
 <212> DNA  
 <213> Zea mays

<400> 1208

actcggaggg gtgcctgttc gacaagcacg cgcggacggc gctggccttc gtgacgctca 60  
 agcacgacgg ggagcgcgag ttcattgttct acaggaaccc gagcgcggac atgctgctga 120  
 cggaggcgga gctggacctg ggcctggtgc ggccgcgccag ggtgttccac tacggctcca 180  
 tctcgtcat ctccgagccg tgccgctcgg cgcacatggc cgccatgcgc gcagccaagg 240  
 ccgcgggcgt gctctgctcc tacgacccca acgtgcgcct cccgctctgg ccgtcgcccc 300  
 acgccgcacg cgagggcatc ctcagcatct ggaaggaggc cgacttcac c aaggtcagcg 360  
 acgacgaggt ggccttcctc acgcgcggtg acgccaacga cgagaagaac gtgctgtccc 420  
 tgtggtttga cgggctcaa 439

<210> 1209  
 <211> 383  
 <212> DNA  
 <213> Zea mays

<400> 1209

aatcgacaag cacgcgcgga cggcgctggc cttcgtgacg ctcaagcacg acggggagcg 60

cgagttcatg ttctacagga acccgagcgc ggacatgctg ctgacggagg cggagctgga 120  
cctggggcctg gtgcgggcgcg ccagggtgtt ccactacggc tccatctcgc tcatctccga 180  
gccgtgccgc tcggcgcaca tggccgccat gcgcgcagcc aaggcggcgg gcgtgctctg 240  
ctcctacgac cccaacgtgc gcctcccgt ctggccgtcg cccgacgccg cacgcgaggg 300  
catcctcagc atctggaagg aggccgactt catcaaggtc agcgacgacg aggtggcctt 360  
cctcacgcgc ggggacgcca acg 383

<210> 1210  
<211> 451  
<212> DNA  
<213> Zea mays

<220>  
<221> unsure  
<222> (1)..(451)  
<223> unsure at all n locations  
<400> 1210

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gtgcctgttc gacaagcacg cgcggacggc gctggccttc gtgacgtca agcacgacgg 120  
ggagcgcgag ttcattgtct acaggaaccc gagcgcggac atgctgctga cggaggcgga 180  
gctggacctg ggcctgggtgc ggcgcgccaa ggtgttccac tacggctcca tctcgtcat 240  
ctccgagccg tgccgctcgg cgcacatggc cgccatgcgc gcagccaagg ccgcgggcgt 300  
gctctgctcc tacgacccca acgtgcgcct tccgctctgg ccgtcgcccg acgccgcacg 360  
cgagggcatc ctcagcatct ggaaggaggc cgacttcacg aaggtcagcg acgacgaggt 420  
ggccttcttc acgcgcggng acgccaacga c 451

<210> 1211  
<211> 497  
<212> DNA  
<213> Zea mays

<220>  
<221> unsure  
<222> (1)..(497)  
<223> unsure at all n locations  
<400> 1211

gagagttctc nnnttaagta gcttactgtc ttggtagtagt tegtaccgga teggagtttc 60  
cgaccaaacc gtccggtccg acaggacgcc tggaccgggg ttggctttct tgccgttaag 120  
ccccaacggg gacggcaagt taatgtatta caggaacca accgcggaca tgctgtttac 180  
ggaggcggag ctggacctgg gcctgggtccg gtgcgccagg gtgttccact acgggtccat 240  
ctegctcatc tccgatccgt gccggtcggc gcacatggcc gacatgcgcg cagccaatgc 300  
cgcgggcggtg ctctggteet acgacctcaa cgtgcgcctt ccgctctggc cgtcgccga 360  
cgccgtacgc gagggcatcc tcagcatctg gaacgaggcc gacttcatca aggtcagcga 420  
cgacgatgtg gccttactca cgcgcgggga cgccaacgac gagaagaacg tgctgtccct 480  
gtggtttgac gggctca 497

<210> 1212  
<211> 253  
<212> DNA  
<213> Zea mays

<400> 1212

ctccatcttc cacaacgagg agaagctccg cgaggctctc aagttctcca acgcctgcgg 60  
cgccatgtgc accaccaaga agggcgccat cccggcgctg cccacggtcg ccaccgcccc 120  
ggacctcatc gccaaaggcca actagatggc cgcacgcccc gccgttccac cacgtcactg 180  
tccccgcgcg ccccgcccct cgtcgtcgac gtectcggtt tcggttcatt aggtagatcg 240  
agtcttaccg tcc 253

<210> 1213  
<211> 375  
<212> DNA  
<213> Zea mays

<400> 1213

cggactcgtg ggcggactcg tgggaggact cgtggggcga ctcggtggcg gactcgtggg 60  
ggcgtgctct gctcctacga cccaacgtg cgctcccgcc tctggccgtc gcccgacgcc 120  
gcacgcgagg gcatcctcag catctggaag gagggcgact tcatcaaggt cagcgacgac 180  
gaggtggcct tctcaccgcg cggggactcc aacgacgaga agaacgtgct gtccctgtgg 240  
tttgacgggc tcaagctgct cgtcgtcacc gacggggaca agggatgcag gtacttcacc 300

aaggacttca agggcagcgt gcccggcttc aaggctcgaca ccgtcgacac caccggcgcc 360  
ggcgacgcct tcgtc 375

<210> 1214  
<211> 411  
<212> DNA  
<213> Zea mays

<220>  
<221> unsure  
<222> (1)..(411)  
<223> unsure at all n locations  
  
<400> 1214

cccacgcgtc cgaacgagga gaagctccgc gaggctctca agttctccaa cgctcgcgcc 60  
gccatctgca ccaccaagaa gggcgccatc ccggcgctgc ccacggtcgc caccgnccag 120  
gacctcatcg ccaaggccaa ctagatggcc gcacgcccgc cgttcacca cgtcactgtc 180  
cccctcgctg tcgacgtcct cggtttcggt tcattaggta gatcgagtct tagcgtccgt 240  
ctctgcgcct ctacgctgag acggtttgtt tgggttaatt aagttagctt tcgtggagat 300  
ttcgccccgg ggcatacaat aaaatgttgg catgcgtggt gggatgctat cctttatttt 360  
tattttattt tatttttttag cttggatcag ttgggggttt gaacattgct a 411

<210> 1215  
<211> 403  
<212> DNA  
<213> Zea mays

<400> 1215

tcgacccctt ttgctgaaca tgcttaagcc tatcaataag tactcggagg ggtgcctgta 60  
cgacaggcgc gctttgacgg cgctgggggt cctgactctc aagcacgacg gggagcgcga 120  
gttcatgttc tacaggaacc cgagcgcgga catgctgctg acggaggcgg agctggacct 180  
gggcctggtg cggcgcgcca aggtgttcca ctacggctcc atctcgctca tctccgagcc 240  
gtgccgctcg gcgcacatgg ccgccatgcg cgcagccaaa gccgtgggcg tgctctgctt 300  
ctacgacccc aacgtgcgcc ttccgctctg gccgtcgacc gacgccgcac gcgagggcat 360  
actcagcatc tggaaagagg ccgacttcat caaggtcagc gac 403

<210> 1216  
 <211> 315  
 <212> DNA  
 <213> Zea mays  
  
 <400> 1216  
  
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 ccaggcctat gggaggcagc ccccgtacc attcgtggg actacgccgt ggaggtcggc 120  
 aggaatgtca tccatggaag cgactccgtg gagaacggga tgaaggagac gctctctggt 180  
 tcctgaaggt gtgcacaagc gagagcacct tcatccctga tctacgaggc tgagcattga 240  
 gctggatgca tgctgctcat ggaaccagag tttgtgagta tatctgttgc tctgctagat 300  
 catattacgc ctggg 315

<210> 1217  
 <211> 268  
 <212> DNA  
 <213> Zea mays  
  
 <400> 1217  
  
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 agcccgatgg tgtccagcgt ggcctcgttg gacccatcat ctctcgcttc gagtcccgtg 120  
 gcttcaagct cgccgctttg aagttggtct ctccgcctcg tgagctcttc gagaagcaat 180  
 atgccgacct ctccgagaag cctttcttcc ccggtctcgt tacatacatg ttgagcggcc 240  
 ccatcgttgc catggtctgg gagggccg 268

<210> 1218  
 <211> 284  
 <212> DNA  
 <213> Zea mays  
  
 <220>  
 <221> unsure  
 <222> (1)..(284)  
 <223> unsure at all n locations  
  
 <400> 1218  
  
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 gattcgcgtc gccctttgtt ggaaggaacg atggagcaga ccttcatcat gatcaagccc 120



gacggcgtcc agcggggcct gatcggggac atcatcagtc gcttcgagaa gaaagggttc 180  
 tacctcaagg ggatgaagtt catgaacgtg gagaggctct tcgcgcacag cactacgctg 240  
 acctttccga caagactttc ttccccngt tggaggagta catc 284

<210> 1219  
 <211> 296  
 <212> DNA  
 <213> Zea mays

<220>  
 <221> unsure  
 <222> (1)..(296)  
 <223> unsure at all n locations

<400> 1219

tcgcncctc cctccggtct gcgctccac agcctcacc ctgcgcccc gccgattcgc 60  
 gtcgcccttt gttggaagga acgatggagc agaccttcat catgatcaag cccgacggcg 120  
 tccagcgggg cctgatcggg gacatcatca gtcgcttcga gaagaaaggg ttctacctca 180  
 aggggatgaa gttcatgaac gtggagaggt ccttcgcgca cagcactacg ctgacctttc 240  
 cgacaagcct ttcttccccg ggttggtgga gtacatcaat tccggccccg tggagg 296

<210> 1220  
 <211> 302  
 <212> DNA  
 <213> Zea mays

<400> 1220

tgtccatcgc gcctccctcc ggtctgcgt cccacagcct caccctgcg ccccgccga 60  
 ttgcgctcgc cctttgttgg aaggaacgat ggagcagacc ttcacatga tcaagcccga 120  
 cggcgctccag cggggcctga tcggggacat catcagtcgc ttcgagaaga aagggttcta 180  
 cctcaagggg atgaagttca tgaacgtgga gaggtccttc gcgcacagca ctacgtgac 240  
 ctttcgcaca agcctttctt ccccggttg gtggagtaca tcatttcgg ccccggttg 300  
 gc 302

<210> 1221  
 <211> 372  
 <212> DNA  
 <213> Zea mays

<400> 1221

cgctccatcgc gcctccctcc ggtctgcgct cccacagcct caccctgcg ccccgccga 60  
ttcgcgtcgc cctttgttgg aaggaacgat ggagcagacc ttcacatga tcaagcccga 120  
cggcgctccag cggggcctga tcggggacat catcagtcgc ttcgagaaga aagggttcta 180  
cctcaagggg atgaagttca tgaacgtgga gaggtccttc gcgcacagca ctacgctgac 240  
ctttccgaca agcctttctt ccccggggtg gtggagtaca tcatttccgg ccccggtgtg 300  
gcgatggtgt gggaggggaa ggacgtcgtg ttgactggcc gcagatcatt ggggccacag 360  
gcttgggagg ca 372

<210> 1222

<211> 299

<212> DNA

<213> Zea mays

<400> 1222

ctcctctcat aaccaccag tccatcgac cctccctccg gtcagcgctc ccacagcctc 60  
accctgcgc ccccgccgat tcgcgtcgcc ctttgttga aggaacgatg gagcagacct 120  
tcacatgat caagcccgac ggcgtccagc ggggcctgat cggggacatc atcagtcgct 180  
tcgagaagaa agggttctac ctcaagggga tgaagttcat gaacgtggag aggtccttcg 240  
cgcagagcac tacgctgacc tttccgacaa gcctttcttc tccgggttgg tggagtaca 299

<210> 1223

<211> 327

<212> DNA

<213> Zea mays

<400> 1223

cggacgcgtg gcgctccac agcctcacc ctgcgcccc gccgattcgc gtcgcccttt 60  
gttggaagaa acgatggagc agaccttcat catgatcaag cccgacggcg tccagcgggg 120  
cctgatcggg gacatcatca gtcgcttcga gaagaaaggg ttctacctca aggggatgaa 180  
gttcatgaac gtggagaggt ccttcgcgca cagcaactacg ctgaccttcc cgacaagcct 240  
ttcttccccg ggttggtgga gtacatcatt tccggccccg tgggtggcgat ggtgtgtgag 300  
gggaagacgt cgtgtgactg gcccaga 327

<210> 1224  
 <211> 284  
 <212> DNA  
 <213> Zea mays  
 <400> 1224  
 cccccccacc cgtccatcgc ccctccctcc ggtctgcgct cccacagcct caccctgcg 60  
 cccccgccga ttgcgctcgc cctttgttg aaggaacgat ggagcagacc ttcacatga 120  
 tcaagcccga cggcgctccag cggggcctga tcggggacat catcagtcgc ttcgagaaga 180  
 aagggttcta cctcaagggg atgaagttca tgaacgtgga gaggtccttc gcgcagagca 240  
 ctacgctgac ctttccgaca agcctttctt ccccggttg gtgg 284

<210> 1225  
 <211> 256  
 <212> DNA  
 <213> Zea mays  
 <400> 1225  
 cccctccctc cgtctgcgc tcccacagcc tcaccctgc gccccgccg attcgcgctc 60  
 ccctttgttg gaaggaacga tggagcagac cttcatcatg atcaagcccg acggcgctcca 120  
 gcggggcctg atcggggaca tcatcagtcg cttcgagaag aaagggttct acctcaaggg 180  
 gatgaagttc atgaacgtgg agaggtcctt cgcgcacagc actacgctga cctttccgac 240  
 aagcctttct tccccg 256

<210> 1226  
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 <212> DNA  
 <213> Zea mays  
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 aggtccttcg cgcacagcac tacgtgacc tttccgacaa gcctttcttc cccgggttg 180  
 cgatatacat catttccggc cccgtggtgg cgatggtgtg ggaggggaag gacgtcgtgt 240  
 tgactggccg caggatcatt ggggccacca ggcctt 276

<210> 1227  
 <211> 357  
 <212> DNA  
 <213> Zea mays

<400> 1227

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 atcgggggaca tcatcagtcg cttcgagaag aaagggttct acctcaaggg gatgaagtcc 120  
 atgaacgtgg agaggtcctt cgcgcagaaa gatacgtga cttttccgac aagcctttct 180  
 tccccgggtt ggtggagtac atcatttccg gccccgtggt ggcgatggtg tgggagggaa 240  
 ggacgtcgtg ttgactggcc gcaggatcat tggggccaca aggcttggga ggcagccccg 300  
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<210> 1228  
 <211> 279  
 <212> DNA  
 <213> Zea mays

<400> 1228

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 atgatcaagc ccgacggcgt ccagcggggc ctgatcgggg acatcatcag tcgcttcgag 180  
 aagaaagggt tctactccaa ggggatgaag ttcatgaacg tggagaggtc cttcgcgcac 240  
 agcactacgc tgacctttcc gacaagcttt cttccccgg 279

<210> 1229  
 <211> 301  
 <212> DNA  
 <213> Zea mays

<400> 1229

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 cctccctccg gtctgcgctc ccacagcctc acccctgcgc ccccgccgat tcgcgtcgcc 120  
 ctttgttgga aggaacgatg gagcagacct tcatcatgat caagccccgac ggcgtccagc 180  
 ggggcctgat cggggacatc atcagtcgct tcgagaagaa agggttctac ctcaagggga 240

tgaagttcat gaacgtggag aggtccttcg cgcacagcac tacgctgacc tttccgacaa 300  
g 301

<210> 1230  
<211> 266  
<212> DNA  
<213> Zea mays

<400> 1230

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ccctgcgccc ccgccgattc gcgtcgccct ttggtggaag gaacgatgga gcagaccttc 120  
atcatgatca agcccgacgg cgtccagcgg ggctgatcg gggacatcat cagtcgcttc 180  
gagaagaaag ggttctacct caaggggatg aagttcatga acgtggagag gtccttcgcg 240  
cagagcacta cgctgacctt tccgac 266

<210> 1231  
<211> 267  
<212> DNA  
<213> Zea mays

<400> 1231

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atgaagttca tgaacgtgga gaggtccttc gcgcacagca ctacgtgac ctttccgaca 120  
agcctttctt ccccgggttg gtggagtaca tcatttccgg ccccggtggtg gcgatggtgt 180  
gggaggggaa ggacgtcgtg ttgactggcc gcaggatcat tgggccacca ggccttggga 240  
ggcagccccg gtaccattcg tggggat 267

<210> 1232  
<211> 332  
<212> DNA  
<213> Zea mays

<400> 1232

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aaggggatga agttcatgaa cgtggagagg tccttcgcgc acagcactac gctgaccttt 120  
ccgacaagcc tttcttcgcc gggttggtgg agtacatcat ttccgagccc gtggtggcga 180

tgggtgtggga ggggaagacg tcgtgtgact gccgcagatc attggggcca cagcccttag 240  
 gagcagcccc ggtaccatcg tgggactagc cgtgaagtcg cagaatgcat catgaagcga 300  
 tcgtgagacg ggagaagagt cgtctctgtc ct 332

<210> 1233  
 <211> 183  
 <212> DNA  
 <213> Zea mays

<400> 1233

cgcaagaacg atggagcaga ccttgatcat gatcaagcac gacggcgctc agcggggcct 60  
 gatcggggac atcatcagtc gcttcgagaa gaaaggggtc tacctcaagg ggatgaagtt 120  
 catgaacgtg gagaggtcct tcgcgcacag ctactacgct gacctgtccg acaagccttt 180  
 ctt 183

<210> 1234  
 <211> 282  
 <212> DNA  
 <213> Zea mays

<400> 1234

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 tgatcaagcc cgtcggcgtc cagcggggcc tgatcgggga catcatcagt cgcttcgaga 120  
 agaaaggggt ctacctcaac gggatgaagt tcatgaacgt ggagaggtcc ttcgcgcaca 180  
 gcactacgct gacctttccg acaagccttt cttccccggg ttggtggagt acatcattta 240  
 cggcacccgtg gtggcgatgg tgtcggaggc gaaggacgtc gt 282

<210> 1235  
 <211> 283  
 <212> DNA  
 <213> Zea mays

<400> 1235

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 ctcccacagc ctccccctg cgcccccgcc gattcgcgtc gccctttgtt ggaaggaacg 120  
 atggagcaga ccttcatcat gatcaagccc gacggcgctc agcggggcct gatcggggac 180

atcatcagtc gcttcgagaa gaaaggggtc tacctcaagg ggatgaagtt catgaacgtg 240  
gagaggtcct tcgcgagag ccactacgt gacctttccg aca 283

<210> 1236  
<211> 260  
<212> DNA  
<213> Zea mays

<400> 1236

cgctctcct cctctcctcc cccaccggtc catcgccctt ccctccggtc tgcgctccca 60  
cagcctcacc cctgcgcccc cgccgattcg cgtcgccctt tggtggaagg aacgatggag 120  
cagaccttca tcatgatcaa gcccagcggc gtccagcggg gcctgatcgg ggacatcatc 180  
agtcgcttcg agaagaaagg gttctacctc aaggggatga agttcatgaa cgtggagagg 240  
tccttcgctc agagcactac 260

<210> 1237  
<211> 260  
<212> DNA  
<213> Zea mays

<400> 1237

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cagcctcacc cctgcgcccc cgccgattcg cgtcgccctt tggtggaagg aacgatggag 120  
cagaccttca tcatgatcaa gcccagcggc gtccagcggg gcctgatcgg ggacatcatc 180  
agtcgcttcg agaagaaagg gttctacctc aaggggatga agttcatgaa cgtggagagg 240  
tccttcgctc acagcactac 260

<210> 1238  
<211> 269  
<212> DNA  
<213> Zea mays

<400> 1238

cgacgcctct cctcctctcc cccccaccc gtccatcgcc cctccctccg gtctgcgctc 60  
ccacagctc acccctgcgc ccccgccgat tcgctcgcc ctttggtgga aggaacgatg 120  
gagcagacct tcatcatgat caagcccgac ggcgtccagc ggggcctgat cggggacatc 180

atcagtcgct tcgagaagaa agggttctac ctcaagggga tgaagttcat gaacgtggag 240  
 aggtccttcg cgcacagcac tacgctgac 269

<210> 1239  
 <211> 289  
 <212> DNA  
 <213> Zea mays

<400> 1239

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 acctcaagg gatgaagttc atgaacgtgg agaggtcctt cgcgcacagc actacgtga 120  
 cctttccgac aagcctttct tccccgggtt ggtggagtac atcatttccg gccccgtgg 180  
 ggcgatggg tgggagggga aggacgtcgt gttgactggc cgcagatcat tggggcacca 240  
 gccttgggag gcaccccggt acattctggg gatacgccgt gaatcgag 289

<210> 1240  
 <211> 263  
 <212> DNA  
 <213> Zea mays

<400> 1240

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 gtctgcgctc ccacagcctc acccctgcgc ccccgccgat tcgcgtcgcc ctttggtgga 120  
 aggaacgatg gagcagacct tcatcatgat caagcccgac ggcgtccagc ggggcctgat 180  
 cggggacatc atcagtcgct tcgagaagaa agggttctac ctcaagggga tgaagttcat 240  
 gaacgtggag aggtccttcg cgc 263

<210> 1241  
 <211> 264  
 <212> DNA  
 <213> Zea mays

<400> 1241

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 gtctgcgctc ccacagcctc acccctgcgc ccccgccgat tcgcgtcgcc ctttggtgga 120  
 aggaacgatg gagcagacct tcatcatgat caagcccgac ggcgtccagc ggggcctgat 180



cggggacatc atcagtcgct tcgagaagaa agggttctac ctcaagggga tgaagttcat 240  
 gaacgtggag aggtccttcg cgca 264

<210> 1242  
 <211> 257  
 <212> DNA  
 <213> Zea mays

<400> 1242

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 ccttcatcat gatcaagccc gacggcgtcc agcggggcct gatcggggac atcatcagtc 180  
 gcttcgagaa gaaaggggtc tacctcaagg ggatgaagtt catgaacgtg cagaggtcct 240  
 tctcgcgaag aattagg 257

<210> 1243  
 <211> 313  
 <212> DNA  
 <213> Zea mays

<220>  
 <221> unsure  
 <222> (1)..(313)  
 <223> unsure at all n locations

<400> 1243

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 gatcngggac atcatcagtc gcttcgagaa gaaggggtct acctcaagg gatgaagttc 120  
 atgaacgtgg agaggtcttc gcgcagagca ctacgtgac ctttccgaca agccttntct 180  
 tcccgggggt ggtggagtac atcatttccg gcccgtggg ggcgatggg tgggagggga 240  
 aggacgtcgt gttgactggc cgcagatcat tggggccacc agcttgggag gcaccccggt 300  
 acattcgtgg gat 313

<210> 1244  
 <211> 270  
 <212> DNA  
 <213> Zea mays

<400> 1244

gtggagaacg ggaagaagga gatcgctctc tggttccctg aaggtgtggc acagtggaag 60

agcaaccttc atccctggat ctacgaggct tgagcagttg agcttggatg ccttgccctgc 120

tccatggaaa ccagagtttt gtttgagtat tatctgttgg ctctggctga agagtcataa 180

tttagcgctc tgtgtgttac accagagtta agtctgcctg aacttatgtg gcatttgttt 240

gagtttctgc cttcgtgccc tgttttctaa 270

<210> 1245

<211> 275

<212> DNA

<213> Zea mays

<400> 1245

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cctggatcta cgaggcttga acagttgagc ttggatgact tgccctgcttc catggaaacc 120

agagttttgt ttgagtatta tctgttggct ctggctgaag agtcataatt tagcgctctg 180

tgtgttacac cagagttaag tctgcctgaa cttatgtggc atttgtttga gtttctacct 240

tcgtgccctg ttttctaatag taccgtgggt gtgaa 275

<210> 1246

<211> 271

<212> DNA

<213> Zea mays

<400> 1246

actaattggt gccacagacg cacagagatc tgaaccagga accatcaggg gtgatcttgc 60

cattgttggt ggaagagaca tcattcatgg aagtgatggc ccagagacag cgaaggatga 120

gatcgcttta tggtttgaac ccaaggactg gtctcttaca ccagcaatgc ggagaagtgg 180

atcaatttaa aagaattaac gagagagtca atctgttttt tttccttctt ttgatctcgg 240

ttttcacata attgccgaca gacctaggca c 271

<210> 1247

<211> 404

<212> DNA

<213> Zea mays

<220>  
 <221> unsure  
 <222> (1)..(404)  
 <223> unsure at all n locations

<400> 1247

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cctttgttgg aaggaacgat ggagcagacc ttcacatga tcaagccga cggcgctccag 120
cggggcctga tcggggacat catcagtcgc ttcgagagga aagggttcta ccgcaagggg 180
atgaagtgca tgaacgtgta gaggtccttc gcgcaggagc actacgcggg ggggggcggc 240
aacgcgtggg ttggcnngtg tggtnagcg ggtgattgcc ggccccgtgg gggctggggg 300
gtgggagggg aaggacgtcg tgttgactgg ccgcaggatc attggggcca ccaggccttg 360
ggaggcagcc cccggtacca ttcgtgggga ctacgccgtg gaag 404
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<210> 1248  
 <211> 347  
 <212> DNA  
 <213> Zea mays

<400> 1248

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tcgcccactc gttegtccac tctttcgct ccatcgcccc ctccctccgg tctgcgtcc 60
cagagcctct cccctgcgcc cccgccgatt cgcgtctccc tttgttgga ggaacgatgg 120
agcagacctt catcatgac aagcccgacg gcgtccagcg gcgcctgac ggggacatca 180
tcagtcgctt cgagaagaaa gggttctacc tcaaggggat gaagttcatg aacgtggaaa 240
ggtccttcgc tcatcagcac tacgtgacc ttccgacaa gcctttcttc cccgggttg 300
tggagtacat catttcggc cccgtggtgg cgattgtgtg ggaagg 347
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<210> 1249  
 <211> 340  
 <212> DNA  
 <213> Zea mays

<400> 1249

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atcagcagtc gcttcgagag gaggggggtt tacctcaagg ggatgaagtt catgaacgtg 120
gagaggtcct tcgcgcagca gcactacgt gacctttccg acaagccttt cttccccggg 180
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ttggtggagt acatcatttc cgccccctg gtggcgatgg tgtgggaggg gaaggacgtc 240  
 gtgttgactg gccgcaggat cattggggcc accaggcctt gggaggcagc ccccggtacc 300  
 attcgtgggg actacgccgt ggaagtcggc aagaatgtca 340

<210> 1250  
 <211> 464  
 <212> DNA  
 <213> Zea mays

<400> 1250

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 gctcgccccct gcgccccgc cgattcgcgt cgccctttgt tggaaggaa gatggagcag 120  
 accttcacatca tgatcaagcc cgacggcgctc cagcggggcc tgatcgggga catcatcagt 180  
 cgcttcgaga agaaaggggt ctacctcaag ggtaagtgcg tttcattttg ttctcgaatt 240  
 gattgctgga acacgtactc tgtttaaatt tcctagctat acgcatgaac ttctctgctg 300  
 ttgaggcaag atttgatgtg cagattctgg tgatatctta gaattgttta atctatgtat 360  
 acgttcgggt gcgtgtgatc accatctgaa aaaggatgtt ggtcgtggaa gcaggaatat 420  
 tgcgtggaga ttagatttga ttgaaaacca ttatcttgat gtca 464

<210> 1251  
 <211> 504  
 <212> DNA  
 <213> Zea mays

<220>  
 <221> unsure  
 <222> (1)..(504)  
 <223> unsure at all n locations

<400> 1251

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 cgtccggagc tgtgctctgc tctgctctcg cctcgcaagg actcgtggta aaggatggag 120  
 accatgtcgg ctctcgcgag gacggcgccg ccccttgcgt ggaccattcg ccggccctca 180  
 tgcgcgctga ggccgacggc gtccctctcc ttcgccgccc cttcaacgac gccccgcggc 240  
 cggctcgggc tggggctgag cacggcgccc gcggggagcg ggagggcggc cagggctcgc 300

gcgcgtcccg gcgcgcgcgc gcgcgcgcgc gaggttgagc aaagctacat tatgatcaaa 360  
ccagatgggtg ttcagcgtgg tctgggtgga gagattatct ctcgctttga gaagaaaggg 420  
tttttgggtga aaggcttaaa acttttccag tgccccaagg acttggcgca ggagcattac 480  
aaggatttga agggataaac tttc 504

<210> 1252  
<211> 233  
<212> DNA  
<213> Zea mays

<400> 1252

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attgaatgag gcaatctctg agtatgagac ttcagaaaac aatgactcgg gaagctaccg 120  
cagattatct tatttggcat tgctccatc agtctacca tcagtatgcg agatgataag 180  
atcatattgc atgagtccat cttcacacac cggttggaca agggttattg ttg 233

<210> 1253  
<211> 180  
<212> DNA  
<213> Zea mays

<400> 1253

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caggggcagc ggggagcggg caccgtcagc atcacggtcg tcggcgctc cggcgacctc 120  
gccaagaaga agatcttccc ggccctcttc gccttgttct acgagggctg gctcccggag 180

<210> 1254  
<211> 137  
<212> DNA  
<213> Zea mays

<400> 1254

cacagatctt gataggcca ctaatgagct tgtgatacgt gtgcaaccgg atgaagcaat 60  
ttacctaaag attaacaaca agattcctgg tctcggtatg cgactagata ggagtaactt 120  
gaatctccat tatgccg 137

<210> 1255

<211> 272  
 <212> DNA  
 <213> Zea mays  
  
 <400> 1255  
  
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 atgccttatg gacacaaaca atgatcccat cgatgttgat gcacacatgt acaggtatca 120  
 tctacatggtt ttacaatata tatttttttag gagttacttt taaaaaatat tagaaaaccc 180  
 cttctttgat attttcaatt tttttggtgg cttaaaaaaa caagaaagta aattttacaa 240  
 accttagaga tgggtctaagt cgtccatgca ta 272

<210> 1256  
 <211> 264  
 <212> DNA  
 <213> Zea mays  
  
 <400> 1256  
  
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 atgccggacc catttttggt gagaaacttg gagctgatcc ggactgcata ttaaattggg 120  
 tgccctcttga agattttgga aatggccatc cagatccaaa tctaacttac gctaaggagc 180  
 ttgttttttac tatgtttgga gcccatgcac ctgacttttg tgcaacaagt gatggtgatg 240  
 gtgatcgga catgattctt ggga 264

<210> 1257  
 <211> 299  
 <212> DNA  
 <213> Zea mays  
  
 <400> 1257  
  
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 tggagcgtgc ttccaaaata tatgaggaat ctgcacataa taacctgaaa gaacaggggg 180  
 aagcttcgaa gggagttgtc actaatgtgg actacatgtc aatttatgct tctgatcttg 240  
 tacaagcagt tcgtaaatct gctggagaca aagaaaaacc attggaggaa ctgcatata 299

<210> 1258

<211> 242  
 <212> DNA  
 <213> Zea mays  
 <400> 1258  
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 cggagagggga ttagtgtcag ttgaagatat tgctatggag cactggaaaa cctatggcag 120  
 gaatttcttg tctagatacg attatgaggc gtgtgaatca cacagtgcaa accagatgat 180  
 ggatcacggt agagatgtta tggcaaatag caagcctgga gagaaatacg gaaattacac 240  
 cc 242

<210> 1259  
 <211> 224  
 <212> DNA  
 <213> Zea mays  
 <400> 1259  
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 gaaaaaccat tggaggaact gcatatagtc gttgatgcag ggaatgggtgc tgggtggtttt 120  
 tttgtggata aggtactcaa accattagga gctgttacca ctggaagtca attccttgag 180  
 cctgatgggt tgtttcccaa tcacattccc aaccctgagg acaa 224

<210> 1260  
 <211> 304  
 <212> DNA  
 <213> Zea mays  
 <400> 1260  
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 tacatccagg aggacaaact tttcggttggt gtgctggacg actgcgggga ttgctcagtt 180  
 gccgagggat gccttatgga cacaacaat gatcccatcg atgttgatgc acacatgtac 240  
 agagcaaaac tatacgacga gaatcagaga gcagtaggca tgggtccacat tcgtcaaagc 300  
 gtgc 304

<210> 1261

<211> 347  
 <212> DNA  
 <213> Zea mays  
  
 <220>  
 <221> unsure  
 <222> (1)..(347)  
 <223> unsure at all n locations  
  
 <400> 1261  
  
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 cgtttcaaac gaggggtacaa gaatgtaata gacgaggcta ttcgtctgaa ctctattggt 120  
 gaggagtcac atttggccat gganacaagt gggcatggag cgctgaaaga gaaccactgg 180  
 cttgatgatg gagcatacct tatggtcana cttttgaata aacttgctgc tgctagaaca 240  
 ctgggttcaa gtattggtag taaagttttg actgatttgg ttgagggcct tgaagaagct 300  
 gatgtgacag ttgaaataag gttaaagatt gatcagaatc atgcaga 347

<210> 1262  
 <211> 287  
 <212> DNA  
 <213> Zea mays  
  
 <400> 1262  
  
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ggggctgcta aggagcttat ggcaaaccta gtaagcatgc agtcatcact ttctgatgtt 240  
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<400> 1264

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 cactggggcca catatggctg ccattactac acacgctatg actatgagaa tgttgatgca 180  
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 aacaagttgg tcaaggagat ccggtctgat gtttctgaag tagttgcagc tgacgagttt 300  
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<400> 1265

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<400> 1266

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 gcagccaatg ctgttcaatc aattccttac tttgcttctg gcctgaaggg agttgccagg 240  
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<210> 1267  
 <211> 304  
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<400> 1267

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 cggccaatgc tgttcaatca attccttact ttgcttctgg cctgaaggga gttgccagga 240  
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<210> 1268  
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<400> 1268

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 cgactgggtg tccgtctatc cggaaccggg tctgttggtg ccaccatccg tgtctacatc 240  
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<210> 1269  
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 caaacctagt aagcatgcag tcatcacttt ctgatgttaa caagttgggtc aaggagatcc 180  
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 <213> Zea mays  
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 gatgctgacc gcaacatgat tctgggtaaa agattctttg tgacaccatc ggactctggt 180  
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 aagttctttg aggtgcctac tgggtgga 328  
  
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 ctgatgtttc tgaagtagtt gcagctgacg agtttgagta caaggatcca gttgatggct 240  
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<210> 1272  
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 <212> DNA  
 <213> Zea mays  
  
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 gaccacattc gtgagaaaga tggcatctgg gctgtgcttg catggctttc tattattgct 180  
 ttcaagaata aggacaacct tggaggagat aagcttgtca ctgttgaaga tattgtccgt 240  
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<210> 1273  
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 <212> DNA  
 <213> Zea mays  
  
 <400> 1273  
  
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 ttggaggtgg tcatccggat cctaacctta cctatgcaaa agagttgggt gaacgcatgg 180  
 gtcttggaag gtcactctca aatgttgagc ctctgaatt tgggtgctgca gctgatggag 240  
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<210> 1274  
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 <213> Zea mays  
  
 <400> 1274  
  
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 gaataaggac aaccttggag gagataagct tgtcactgtc gaagatattg tccgtcagca 180  
 ctgggccaca tatggtcgcc attactacac acgctatgac tatgagaatg ttgatgcagg 240  
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<210> 1275  
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 <212> DNA  
 <213> Zea mays  
  
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 cgagtttgag tacaaggatc cagttgatgg ctctgtgtcc aagcaccagg gcatccgata 180  
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 <213> Zea mays  
  
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 gaatgtgaat ctcaagttct ttgaggtgcc tactgggtgg aaattttttg ggaatttgat 180  
 ggatgctgga atgtgctcag tctgtggtga agaaagcttt ggcactgggt ctgaccacat 240  
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 aagctcactg ttgaatttg tcccaaaaaga ggactttgga ggtgggtcatc cggatcctaa 180  
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 <212> DNA  
 <213> Zea mays  
  
 <400> 1278  
  
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 aggacgccct tgctccgctg gttgatttgc gctcaagctc tccaagatgc aagagtacac 180  
 tggacgctct gccccaccg tcatcacata aattttgaag agtgtttttag aatgagttga 240  
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<210> 1279  
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 <212> DNA  
 <213> Zea mays  
  
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 tgttgttgca aagaatttga accttaagtt ctttgaggtg cctactggat ggaagttttt 180  
 tgggaatttg atggatgctg gaatgtgctc aatctgtggt gaagaaagct ttggcactgg 240  
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 <212> DNA  
 <213> Zea mays  
  
 <400> 1280  
  
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 <212> DNA  
 <213> Zea mays  
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 taaggagctg ttggcaaccc tagtaagcat gcagtcacatca ctttctgatg ttaacaagtt 180  
 gatcaaggag atccggtctg atgtttctga agtagttgca gctgacgagt ttgagtacaa 240  
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 <213> Zea mays  
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 tagcggccaa tgc 253

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 <213> Zea mays  
  
 <400> 1284  
  
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 <211> 249  
 <212> DNA  
 <213> Zea mays  
  
 <400> 1285  
  
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 gaccggcag 249

<210> 1286  
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 <212> DNA  
 <213> Zea mays  
  
 <400> 1286  
  
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 ctggttgatg ttgcgctcaa gctctccaag atgcaagagt aactggacg ctctgcccc 180  
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 ttcattccgg cctcttggt 259



<210> 1287  
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 <212> DNA  
 <213> Zea mays  
  
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 ttactaca 248

<210> 1288  
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 <213> Zea mays  
  
 <400> 1288  
  
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 agtttttttg gaatttgatg gatgctggaa tgtgctcaat ctgtggtgaa gaaagctttg 180  
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<210> 1290  
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<212> DNA  
 <213> Zea mays  
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 <213> Zea mays

<400> 1294

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<210> 1296  
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 <212> DNA  
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<400> 1298

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 <212> DNA  
 <213> Zea mays

<220>  
 <221> unsure  
 <222> (1)..(310)  
 <223> unsure at all n locations

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<210> 1300  
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 <212> DNA  
 <213> Zea mays

<400> 1300

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<220>  
 <221> unsure  
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 <223> unsure at all n locations

<400> 1301

tgagcgccat tactacacac gctatgacta tgagatgttg atgcaggggc tgctaaggag 60  
 cttatggcaa acctagtaag catgcagtca tcactttctg atgttaacaa gttgtttnc 120  
 ggagatcggc ctgatgtttc tgatgtagtt gcagctgacg agtttgagta caaggatcct 180  
 gttgatggct ctgtgtccaa gcaccagggc atccgata 218

<210> 1302  
 <211> 173  
 <212> DNA  
 <213> Zea mays

<400> 1302

actattattg ctttcaatca taaggacaaa cttggaagag ataagcttgt cactgttgaa 60  
gatattgtcc gtcagcattg ggcgacatat ggctgccatt attacacacg ctatgactat 120  
gagaatgtcg atgctggggc tgctaaggcg ctgatggcaa acctaataag cat 173

<210> 1303  
<211> 264  
<212> DNA  
<213> Zea mays

<400> 1303

ccctctccct tttttttttt tgagtaaatt attttttagta ctcagaaaaa aagataagca 60  
aatgctcaaa caaaaccaga aacacttcct aacaagatta caagacacac gctcccgatt 120  
acagcactgt cactgtgaca agattattac cgcattgctgt gccagcggct cagtccgctg 180  
cactgcagta catggacaaa aaaaaaacgg ggcgagtctg atacatacat tttattcatt 240  
ggtgagatgc aacaggaagt agaa 264

<210> 1304  
<211> 198  
<212> DNA  
<213> Zea mays

<400> 1304

gcacgagggt gcatctcacc aatgaataaa atgtatgtat cagactcgcc ccgttttttt 60  
tttgtccatg tactgcagtg cagcggactg agccgctggc acagcatggc ggtaataatc 120  
ttgtcacagt gacagtgtg taatcgggag cgtgtttctt gtaatcttgt taggaagtgt 180  
ttctggtttt gtttgagc 198

<210> 1305  
<211> 303  
<212> DNA  
<213> Zea mays

<400> 1305

caaatgacca tctggaacac tgtttctgct aatgccagcc tttcatctt ctgcttgtat 60  
gcagctgtcc ggtcttagat gcatttgaaa tttctctatg cactgaacac tacttatgtt 120  
attccattat tgtaataaca ggagcatgcc aacatctgct gctcttgatg ttgttgcaaa 180

gaatttgaac ctttaagttct ttgaggtgcc tactggatgg aagttttttt gggaatttga 240  
 tggatgctgg aatgtgctca atctgtggtg aagaaagctt tggcactggg tctgaccaca 300  
 ttc 303

<210> 1306  
 <211> 122  
 <212> DNA  
 <213> Zea mays

<400> 1306

ctttctgatg ttaacaagtt ggtcaaggag atccggtctg atgtttctga agtagttgca 60  
 gctgacgagt ttgagtacaa ggatcctgtt gatggctctg tgtccaagca ccagggcatc 120  
 cg 122

<210> 1307  
 <211> 118  
 <212> DNA  
 <213> Zea mays

<220>  
 <221> unsure  
 <222> (1)..(118)  
 <223> unsure at all n locations

<400> 1307

cgggtctgatg tntctgaagt agtgcagctg acgagtntga gtacaaggat cctgttgatg 60  
 gctctgtgtc caagcaccag ggcacccgat acctctttgg agatgggttca cgactggt 118

<210> 1308  
 <211> 291  
 <212> DNA  
 <213> Zea mays

<400> 1308

caaatgacca tctggaacac tgtttctgct aatgccagcc ttttcatctt ctgcttgtat 60  
 gcagctgtcc ggtcttagat gcatttgaaa tttctctatg cactgaacac tacttatgtt 120  
 attccattat tgtaataaca ggagcatgcc aacatctgct gctcttgatg ttgttgcaaa 180  
 gaatttgaac ctttaagttct ttgaggtgcc tactggatgg aagttttttt gggaatttga 240

tggatgctgg aatgtgctca atctgtggtg aagaaagctt tggcactggg t 291

<210> 1309  
 <211> 104  
 <212> DNA  
 <213> Zea mays

<400> 1309

caactctaag accggcaggg attcacagga cgcccttgca ccgcaggttg atgtagcgt 60

caagctcacc aagatgcaag agtacacagg acgctcagcc ccca 104

<210> 1310  
 <211> 321  
 <212> DNA  
 <213> Zea mays

<400> 1310

tgctcctccg ccgggacgcc gtcagccgcc caggcgtca agatcagttc aatcccgacc 60

aagccagttg aggggcagaa gactgggact agtggcctga ggaaaaaggt gaaagtattc 120

cagcaggaga actaccttgc taattggatt caggctctat tcaattcctt gccccctgaa 180

gattatgtgg gtgcaaccct tgtacttggg ggtgatggcc ggtactttaa caaggaggct 240

gctcagatca tcattaagat tgcagctgga aatggagttc agaagatcat agttggcagg 300

aatggtctac tgtcaacacc t 321

<210> 1311  
 <211> 306  
 <212> DNA  
 <213> Zea mays

<400> 1311

ccacgcgtcc gccacgcgtc cgcccacgcg tccgccacgc gtccgggacc tgggatattc 60

cagcaggaga actaccttgc taattggatt caggctctat tcaattcctt gccccctgaa 120

gattatgtgg gtgcaaccct gtacttgggg gtgatggccg gtactttaac aaggaggctg 180

ctcagatcat cattaagatt gcagctggaa atggagttca gaagatcata gttggcagga 240

atggtctact gtcaacacct gctgtatctg ctgtaattcg taaaagaaaa gccaatggcg 300

gcttta 306



<210> 1312  
 <211> 311  
 <212> DNA  
 <213> Zea mays  
  
 <400> 1312  
  
 cttgtacttg ggggtgatgg ccggtacttt aacaaggagg ctgctcagat catcattaag 60  
 attgcagctg gaaatggagt tcagaagatc atagttggca ggaatggtct actgtcaaca 120  
 cctgctgtat ctgctgtaat tcgtaaaaga aaagccaatg gcggctttat catgagtgca 180  
 agccataatc caggtggacc agacaatgac tgggggtatta agtttaacta cagcagtgga 240  
 cagccagcac cggagacgat tactgatcaa atttatggaa acacactatc aatttctgaa 300  
 ataaaaacag c 311

<210> 1313  
 <211> 265  
 <212> DNA  
 <213> Zea mays  
  
 <400> 1313  
  
 ttcagaagat catagttggc aggaatggtc tactgtcaac acctgctata tctgctgtaa 60  
 ttcgtaaaag ataagccaat ggcggcttta tcatgagtgc aagccataat ccaggtggac 120  
 cagacaatga ctgggggtatt aagtttaact acagcagtgg acagccagca ccggagacga 180  
 ttactgatca aatttatgga aacacactat caatttctga aatacaaaca gcagacattc 240  
 ctgatactga tttgtcctct gttgg 265

<210> 1314  
 <211> 302  
 <212> DNA  
 <213> Zea mays  
  
 <400> 1314  
  
 cgtcatcaca taaattttga agaacgtttt agaatgagtt gaggcgctta cacaaacttt 60  
 cattccggcc tcttggtcca tagtttttct tgcattgttac atctcaccga tgaataaaat 120  
 gtatgtatca gacttgtctc gtttttttgc ccatccaagc agcaaattag ccgctggcac 180  
 agcatgcggt aataatcttg tcacagtgtc gtaattggga gcgtttttct tgttagaagt 240

gtttctggtt tgtttgagca ttgcggtatc gatttttctt tctgaagagt ataaattatt 300

tt 302

<210> 1315

<211> 300

<212> DNA

<213> Zea mays

<400> 1315

tctcactccc gtgtcgtgtc tagcgccgac gggttgctac cggagccggc cagcggccac 60

gatgcctaca atgcacgcgc ttgcctatg cccgctgctc tccaccatcc gatccacacc 120

accgcggggc actgccgcag cccgccaggc gcgctcttcg tcgcccgtg ctctctcgcc 180

gggacgccgt cagccgccc aagcgtcaag atcagttcaa tcccgaccaa gccagttgag 240

gggcagaaga ctgggactag tggcctgagg aaaaagggtga aagtattcca gcaggagaac 300

<210> 1316

<211> 356

<212> DNA

<213> Zea mays

<220>

<221> unsure

<222> (1)..(356)

<223> unsure at all n locations

<400> 1316

cgatccctgc accactaccg cctcctccgc ttcacccctc tcgtcgctc ttgcggcgac 60

cggcgggcgga tcgtccgcgg cngcaacgca accatggggc tttcacctg gacgaagaag 120

gccaccaccc ccttcgaagg ccagaagccc ggtacctccg gcctccgcaa gaagggtact 180

gtattccagc agcctcatta tctgcagaac tttgtccagt caacattcaa tgcccttctt 240

gcagaccaag taaaagggtgc aaccattggt gtctctggtg atggccgcta tttctcaaaa 300

gatgctgttc agatcataac aanaatggct gctgccaatg gagtaagacg tgtttg 356

<210> 1317

<211> 304

<212> DNA

<213> Zea mays

<400> 1317

ctgtcatccg tgaagaatt ggtgcagatg gatcaaaggc tactggtgcc ttcattctga 60  
cagcgagcca taaccaggt ggtcctacgg aggactttgg tatcaaatac aatatgggaa 120  
atggtggacc tgccctgaa tccgttaccg acaagatttt ctctaataca acgacaatct 180  
ctgaatacct catctctgaa gaccttcag atgttgatat ttctgttggtc ggtgtcacca 240  
gcttcagtgg acccgaagcc cctttgatgt ggatgtcttt gactctagtg taaattacat 300  
aaag 304

<210> 1318  
<211> 307  
<212> DNA  
<213> Zea mays

<400> 1318

cccacgcgtc cgggtgatgg ccgctatttc tcaaaagatg ctgttcagat cataacaaaa 60  
atggctgctg ccaatggagt aagacgtgtt tgggttgac aaaacagtct catgtctact 120  
cctgctgtat ctgctgtcat ccgtgaaaga gttggtgcag atggatcaaa ggctactggt 180  
gccttcatct tgacagcgag ccataacca ggtggtccta aggaggactt cgggatcaaa 240  
tacaacatgg gaaatggtgg gcctgctcct gaatctgtta ccgacaagat tttctctaata 300  
acaacga 307

<210> 1319  
<211> 292  
<212> DNA  
<213> Zea mays

<400> 1319

aagcccggta cctccggcct ccgcaagaag gttactgtat tccagcagcc tcattatctg 60  
cagaactttg tccagtcaac attcaatgcc cttcctgcag accaagtaaa aggtgcaacc 120  
attgttgtct ctggtgatgg ccgctatttc tcaaaagatg ctgttcagat cataacaaaa 180  
atggctgctg ccaatggagt aagacgtgtt tgggttgac aaaacagtct catgtctact 240  
cctgctgtat ctgctgtcat ccgtgaaaga attggtgcag atggatcaaa gg 292

<210> 1320  
<211> 294

<212> DNA  
 <213> Zea mays  
 <400> 1320  
 gcagaacttt gtccaatcaa cattcaatgc ccttcctgtg gatcaagtaa gacgtgcaac 60  
 aattgttgtc tctgggtgatg gccgctatct ctcaaaagat gctgttcaga tcataacaaa 120  
 aatggctgct gccaatggag taagacgtgt ttggggttga caaacagtc tcatgtctac 180  
 tctgtctgta actgctgtca tccgtgaaag agttgggtgca gatggatcaa aggctactgg 240  
 tgccttcctc ttgacagcga gccataaccc aggtgggtcct aaagaggact tcgg 294

<210> 1321  
 <211> 312  
 <212> DNA  
 <213> Zea mays  
 <400> 1321  
 cctctcactc ccgatccctg caccactacc gcctcctccg cgtcaccctt ctctctgcct 60  
 cttgcggcga ccggcggcgg atcgtccgca gcgcaagcgc aaccatgggg ctcttcaccg 120  
 tgacgaagaa ggccaccacc cccttcgaag gccagaagcc cggtaacctc ggctctccga 180  
 agaaggttac tgtattccag cagcctcatt atctgcagaa ctttgtccag tcaacattca 240  
 atgcccttcc tgcagaccaa gtaaaagggt caaccattgt tgtctctggt gatggccgct 300  
 atttctcaaa ag 312

<210> 1322  
 <211> 284  
 <212> DNA  
 <213> Zea mays  
 <400> 1322  
 gtgcagatgg atcaaaggct actggtgcct tcctcttgac agcgagccat aaccaggtg 60  
 gtcctaagga ggacttcggg atcaaataca acatgggaaa tgggtggcct gctcctgaat 120  
 ctgttaccga caagattttc tctaatacaa cgacaatctc tgaatactc atctctgaag 180  
 acctaccaga tgttgatatt tctgttgctg gtgtcaccag cttcagtga cccgaaggcc 240  
 cctttgatgt ggatgttttt gactctagtg tagattacat aaag 284

<210> 1323  
 <211> 310  
 <212> DNA  
 <213> Zea mays

<400> 1323

tatgcagatg gatcaaaggc tactggtgcc ttcattctga cagcgagcca taaccaggt 60  
 ggctctacgg aggacttttg tatcaaatac aatatgggaa atggtggacc tgccctgaa 120  
 tccgttaccg acaagatfff ctctaataca acgacaatct ctgaatacct catctctgaa 180  
 gaccttccag atgttgatat ttctgtgtgc ggtgtcacca gcttcagtgg accgaaggc 240  
 ccctttgatg tggatgtctt tgactctagt gtaaattaca taaagttaat gaagacaatt 300  
 tttgacttcg 310

<210> 1324  
 <211> 296  
 <212> DNA  
 <213> Zea mays

<400> 1324

ccgatccctg caccactacc gcctcctccg cttcaccctt ctcgctgcct cttgcggcga 60  
 ccggcggcgg atcgctccga gcgcaacgca accatggggc tcttcaccgt gacgaagaag 120  
 gccaccaccc ccttcgaagg ccagaagccc ggtacctccg gcctccgcaa gaaggttact 180  
 gtattccagc agcctcatta tctgcagaac tttgtccagt caacattcaa tgcccttctt 240  
 gcagaccaag taaaaggtgc aactattgtt gtctctggtg atggccgcta tttctc 296

<210> 1325  
 <211> 265  
 <212> DNA  
 <213> Zea mays

<400> 1325

gaaatggtgg gcctgctcct gaatctgtta ccgacaagat tttctctaata acaacgacaa 60  
 tctctgaata cctcatctct gaagacctac cagatgttga tatttctgtt gtcggtgtca 120  
 ccagcttcag tggacctgaa ggcccccttg atgtggatgt ttttgactct agtgtagatt 180  
 acataaagtt aatgaagtca atttttgact tcgaagcaat aaaaaagctg ctgacctccc 240  
 caaagtttac attctgttat gatgc 265

<210> 1326  
 <211> 281  
 <212> DNA  
 <213> Zea mays

<220>  
 <221> unsure  
 <222> (1)..(281)  
 <223> unsure at all n locations

<400> 1326

cctcactgcc ctctcactcc cgatccctgc accactaccg cctcctccgc gtcacccctc 60  
 tcgtcgccctc ttgcggcgac cggcggcgga tcgtccgcag cgcaagcgca accatggggc 120  
 tcttcaccgt gacgaagaag gccaccaccc ccttcgaagg ccagaagccc ggtacctccg 180  
 gcctccgcaa gaaggttact gtattccagc agcctcatta tctgcagaac tttgtccagt 240  
 caacattcaa tgcccttcct gcagaccaag tanaagggtgc a 281

<210> 1327  
 <211> 250  
 <212> DNA  
 <213> Zea mays

<220>  
 <221> unsure  
 <222> (1)..(250)  
 <223> unsure at all n locations

<400> 1327

gtcctaagga ggacttcggg atcaaataca acatgggaaa tgggtgggcct gctcctgaat 60  
 ctgttaccga caagattttc tctaatacaa cgacaatctc tgaatacctc atctctgaag 120  
 acctaccaga tgttgatatt tctgttgctg gtgtcaccag cttcagtgga cccganatcc 180  
 cctttgatgt ggatgttttt gactctagtg tagattacat aaagttaatg aagacaattt 240  
 ttgacttcga 250

<210> 1328  
 <211> 255  
 <212> DNA  
 <213> Zea mays

<400> 1328

gaaatggtgg gcctgctcct gaatctgtta cgcacaagat tttctctaata acaacgacaa 60  
tctctgaata cctcatctct gaagacctac cagatattga ttttctgtt gtcggtgtca 120  
ccagcttcag tggacctgaa ggcccccttg atgtggatgt ttttgactct agtgtagatt 180  
acataaagtt aatgaagtca atttttgact tcgaagcaat aaaaaagctg ctgacctccc 240  
caaagtttac attct 255

<210> 1329  
<211> 267  
<212> DNA  
<213> Zea mays

<400> 1329

cccacgcgtc cgccactcct tccctgcct ctcactcccg atccctcctc caccacgcgt 60  
tcctccgcgt caccctctc gtcgtcgct cagcaggcga ccagcggcgg accctccgcg 120  
gcgcaaccat ggggctcttc actgtgacga agaaggccac cagcccttc gacggccaga 180  
agcccggcac ctccggcctc cgcaagaagg ttactgtatt ccagcagccc cattatctgc 240  
agaactttgt ccaatcaaca ttcaatg 267

<210> 1330  
<211> 308  
<212> DNA  
<213> Zea mays

<400> 1330

cggaccgtgg cggaaatagt gaggagcggga gaacaccgga atgatccatc ctcttgtgct 60  
ttccctgccc ttccccgcta taatatcgcg ccctcgtcag catcgtcacc acaccagcac 120  
tccctcactg ccctctcact cccgatccct gcaccactac cgctcctcc gcttcagccc 180  
tctcgtcgcc tcttgcgcg accggcgcg gatcgtcgc ggcgcaacgc aaccatgggg 240  
ctcttcaccg tgacgaagaa ggccaccacc cccttcgaag gccagaagcc cggtagctcc 300  
ggcctccg 308

<210> 1331  
<211> 244  
<212> DNA  
<213> Zea mays

<400> 1331

gaaatggtgg gctgctcct gaatctgtta cgcacaagat tttctctaata acaacgacaa 60  
tctctgaata cctcatctct gaagacctac cagatgttga ttttctgtt gtcggtgtca 120  
ccagcttcag tggacccgaa gccctttga tgtggatgtt tttgactcta gtgtagatta 180  
cataaagtta atgaagacaa tttttgactt cgaagcaata aaaaagctgc tgacctcccc 240  
aaag 244

<210> 1332

<211> 266

<212> DNA

<213> Zea mays

<400> 1332

ccatcctctc gtgctatccc tgcctcccc cgctataata tcgcgccctc gtcgccatcg 60  
tcaccacacc accactccct cactgccctc tcaactccga tcctgcacc actaccgctt 120  
cctccggtc acccctctcg tcgcctcttg cggcgaccgg cggcggatcg tccgcggcgc 180  
aacgcaacca tggggctctt caccgtgacg aagaaggcca ccacccctt cgaaggccag 240  
aagcccggta cctccggcct ccgcaa 266

<210> 1333

<211> 221

<212> DNA

<213> Zea mays

<400> 1333

ggagtaagac gtgtttgggt tggacaaaac agtctcatgt ctactcctgc tgtatctgct 60  
gtcatccgtg aaagagttgg tgcagatgga tcaaaggcta ctggtgcctt catcttgaca 120  
gcgagccata acccaggtgg tctaaggag gacttcggga tcaaatacaa catgggaaat 180  
ggtgggcctg ctctgaatc tgttaccgac aagattttct c 221

<210> 1334

<211> 230

<212> DNA

<213> Zea mays

<400> 1334



ctgccctctc actcccgatc cctgcaccac taccgcctcc tccgcttcac ccctctcgtc 60  
gcctcttgcg gcgaccggcg gcggatcgtc cgcggcgcaa gcacaaccat ggggctcttc 120  
accgtgacga agaaggccac caccctcttc gaaggccaga agcccggtag ctccggcctc 180  
cgcaagaagg ttactgtatt ccagcagcct cattatctgc agaactttgt 230

<210> 1335  
<211> 271  
<212> DNA  
<213> Zea mays

<400> 1335

ctgcaccact accgcctcct ccgcgtcacc cctctcgtcg catcttgcgg cgaccggcgg 60  
cggatcgctc gatgcgcacg cgtaacactg gggctcttca ccgtgacgaa gaaggccacc 120  
acccctctcg aaggccagaa gcccggtacc tccggcctac gcaagaaggt tactgtattc 180  
cagcagcctc attatctgca gaacttggtc cagtcaacat tcaactgcct tcctgcagac 240  
caagtaaaag gtgcaccatt gttgtctctg g 271

<210> 1336  
<211> 238  
<212> DNA  
<213> Zea mays

<400> 1336

cctccgcgtc acccctctcg tcgcctcttg cggcgaccgg cggcggatcg tccgcggcgc 60  
aacgcgacca tggggctctt caccgttccg aagaaggcca ccatcccctt cgaaggccag 120  
aagcccggta cctccggcct ccgcaagaag gttactgtat tccagcagcc tcattagctg 180  
cagagctttg tcgagtcaac attcaatgtc cttcctgcag accaagtaaa atgtgcac 238

<210> 1337  
<211> 163  
<212> DNA  
<213> Zea mays

<400> 1337

ctctcactcc cgatccctgc accactaccg cctcctccga gtcaccctc tcgtcgctc 60  
ttgcggcgac cggcggcgga tcgtccgcag cgcaacgcaa ccatggggct cttcaccgtg 120

acgaagaagg ccaccacccc cttcgaaggc cagaagcccg gta 163

<210> 1338  
<211> 224  
<212> DNA  
<213> Zea mays

<400> 1338

gaatggtggg ctgctcctga atctgttacc gacaagattt tctctaatac aacgacaatc 60

tctgaatacc tcattctctga agacctacca gatgttgata tttctgttgt cgggtgcacc 120

agcttcagtg agaccgaagg ccctttgatg tggatgtttt gactcaagtg tagattacat 180

aagtaatgaa gcaattttga ctcgaagcat aaaaaactgt gact 224

<210> 1339  
<211> 192  
<212> DNA  
<213> Zea mays

<400> 1339

ctgccctctc actcccgatc cctgcaccac taccgcctcc tccgcttcac ccctctcgtc 60

gcctcttgct gcgaccggcg gcggatcgtc cgcagcgcaa gcgcaaccat ggggctcttc 120

accgtgacga agaaggccac caccctcttc gaaggccaga agcccggtag ctccggcctc 180

cgcaagaagg tt 192

<210> 1340  
<211> 141  
<212> DNA  
<213> Zea mays

<400> 1340

gcctccctgc cctctcactc ccgatccctc ctccaccgcc gttcctccg cgtcaccctt 60

ctcgtagtcg cctcacgagg cgaccagcgg cggaccctcc gcggcgcaac catggggctc 120

ttcactgtga cgaagaaggc c 141

<210> 1341  
<211> 255  
<212> DNA  
<213> Zea mays

<400> 1341

gcgagatcaa tgccaaccag tgggtgctctt gatcgtgttg ccgagaaatt gaatgttcca 60

ttctttgagg ttccaacagg ctggaaattt tttggcaacc taatggatgc aggaaaattg 120

tctatattgtg gagaggaaag ttttgggact ggatctgatc acatcagaga gaaggatggc 180

atctgggctg ttctggcttg gctttccata cttgcacacc ggaacaagga taagaaggtc 240

ggagagagat tagtg 255

<210> 1342

<211> 273

<212> DNA

<213> Zea mays

<220>

<221> unsure

<222> (1)..(273)

<223> unsure at all n locations

<400> 1342

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tacctgcac ctagggttg ccaaaaaatt gtctatattgt ggagaggaaa gttttgggac 120

tggatctgat cacatcagag agaaggatgg catctgggct gttctggctt ggctttccat 180

acttgcacac cggaacaagg ataagaaggc cggagagaga ttagtgtcan ttgaggatat 240

tgctatggag cactggaaan cctatggcng gat 273

<210> 1343

<211> 268

<212> DNA

<213> Zea mays

<400> 1343

ctcatctctg aagaccttcc agatgttgat atttctgttg tcggtgtcac cagcttcagt 60

ggacccgaag gccctttga tgtggatgtc tttgactcta gtgtaaatta cataaagtta 120

atgaagacaa tttttgactt cgaagcaata aaaaagctac tgacctcccc aaagtttaca 180

ttctgttatg atgcgctcca tgggtgttgct ggagcttatg ccaaacacat ctttgtggaa 240

gagcttggtg ctgatgaaag ctcaactgt 268

<210> 1344  
 <211> 236  
 <212> DNA  
 <213> Zea mays

<400> 1344

catctctgaa gacctaccag atgttgatat ttctgttgctc ggtgtcacca gcttcagtgg 60  
 accogaagcc cctttgatgt ggatgttttt gactctagt tagattacat aaagttaatg 120  
 aagacaattt ttgacttcga agcaataaaa aagctgctga cctcccaaaa gtttacattc 180  
 tgttatgatg cactccatgg tgttgcgga cttatgccat acacatcttt gtggaa 236

<210> 1345  
 <211> 433  
 <212> DNA  
 <213> Zea mays

<400> 1345

cccacgcgtc cgctgatacc gtactaccgt ctacaggatc agtatagctg aaggcatgag 60  
 caaattggag ggtgtagacg gtagtacggt atcaaaacaa ggacttcgat ttgttttcac 120  
 tgatggatct aggattatct tccggctttc gggaaccgga tctgctggag ctactatccg 180  
 cctctacata gaacaatttg aatctgatat ctgaagcat agtctcgatg ctcaaacagc 240  
 tttgaagcct ttaatagacc tggctttgtc tgtttcgaag ctcaaggact tcacaggaag 300  
 agagaaacct actgtcataa cataggccct gtttgtttcg gcttttggca gcttctggcc 360  
 accaaaagct actgcgtact gtcaaacgct cagcttttca gccagcttct ataaaattcg 420  
 gttggggcaa aaa 433

<210> 1346  
 <211> 408  
 <212> DNA  
 <213> Zea mays

<400> 1346

gtacgtgcgt gactacagtt gcatgctatg gccatggcca cgacttcgcc ggcaactggg 60  
 cagccatcat catacaagca cagagccgc ggcgcggcgc ggtgctgccc tctcctctg 120  
 ctgtcctgga agacacgaag ctttgggcag caggtgacga caagggccac ggcggcgagc 180

tcccgtgggc agcccgccgg cgtggcactg gcagggggag aagagggcga cagtatcagg 240  
 cggtcgcaga acgggtcgga cgtgcggggc gtcgcgctgg agggcgagaa aggccggggc 300  
 gtggacctca cgccgctggc ggtcgaggcc atcgccgaga gcttcgggga gtggctgcga 360  
 gaggaggagc tccggctccg gggccaggag cccgagcagc tgcgtgtg 408

<210> 1347  
 <211> 431  
 <212> DNA  
 <213> Zea mays

<400> 1347

cccacgcgtc cggcttggtg ctgatgaaag ctactgttg aattgtgtcc cgaaagagga 60  
 ctttgagggt ggtcatccgg atcctaacct tacctatgca aaagagttgg ttgaacgcat 120  
 gggctcttga aagtcatact caaatgttga gcctcctgaa tttggtgctg cagctgatgg 180  
 agatgctgac cgcaacatga ttcttggtaa aagattcttt gtgacaccgt cggactctgt 240  
 tgccattatc gcagccaatg ctgttcaatc aattccttac tttgcttctg gcctgaaagg 300  
 agttgccagg agcatgccaa catctgctgc ccttgatggt gttgcaaaga atttgaacct 360  
 taagttcttt gaggtgccta ctggaatgaa gttttttggg aatttgatgg atgctggaat 420  
 gtgctcaatc t 431

<210> 1348  
 <211> 418  
 <212> DNA  
 <213> Zea mays

<400> 1348

gtccgtcagc actgggccac atatggtcgc cactactaca cacgctatga ctatgagaat 60  
 gttgatgcag gggctgctaa ggagcttatg gcaaacctag taagcatgca gtcactcatt 120  
 tctgatgtta acaagttggt caaggagatc cggctctgatg tttctgaagt agttgcagct 180  
 gacgagtttg agtacaagga tcctgttgat ggctctgtgt ccaagcacca gggcatccga 240  
 tacctctttg gagatggttc acgactgggtg ttccgcctct ctggaaccgg ttctgttggt 300  
 gccaccatcc gtgtctacat cgagcagtac gagagggact cctctaagac cggcagggat 360  
 tcacaggacg cccttgcttc gctggttgat gttgcgctca agctcttcaa gatgcaag 418

<210> 1349  
 <211> 359  
 <212> DNA  
 <213> Zea mays

<400> 1349

ggcctgaagg gagttgccag gagcatgcct tcctctgctg cccttgatgt tgttgcaaag 60  
 aatttgaacc ttaagttcct tgagggtgcct actggatgga agtttttttg gaatttgatg 120  
 gatgctggaa tgtgctcaat ctgtggtgaa gaaagctttg gcactgggtc tgaccacatt 180  
 cgtgagaagg atggcatctg ggctgtgctt gcatggcttt caattattgc tttcaagaat 240  
 aaggacaacc ttggaggaga taagcttgct acttgtgaag atattgtccg tcagcactgg 300  
 gccacatatg gtcgccatta ctacacacgc tatgactatt aaaatgttga tgcacgggc 359

<210> 1350  
 <211> 421  
 <212> DNA  
 <213> Zea mays

<400> 1350

ctgaatttgg tgctgcagct gatggagatg ctgaccgcaa catgattcct ggtaaaagat 60  
 tctttgtgac accgtcggac tctgttgcca ttatcgcagc caatgctggt caatcaattc 120  
 cttactttgc ttctggcctg aagggagttg ccaggagcat gccaacatct gctgcccttg 180  
 atgttggtgc aaagaatttg aaccttaagt tctttgaggt gcctactgga tggaagtttt 240  
 ttgggaattt gatggatgct ggaatgtgct caatctgtgg tgaagaaagc tttggcactg 300  
 ggtctgacca cattcgtgag aaggatggca tctgggctgt gcttgcattg ctttcaatta 360  
 ttgctttcaa gaataaggac aaacttggag gagataagct tgtcactggt gaagatattg 420  
 t 421

<210> 1351  
 <211> 377  
 <212> DNA  
 <213> Zea mays

<400> 1351

gggagttgcc aggagcatgc caacatctgc tgcccttgat gttgttgcaa agaatttgag 60

ccttgagttc tttgaggtgc ctactggatg gaagcttttt gggaattgga tggatgctgg 120  
 aatgtgctca atctgtggtg aagaaagctt tggcactgtg gctgaccaca ttcgtgagaa 180  
 ggatggcatt tgggctgagc ttgcatggct atcaattatt gctttcaaga gtttggacag 240  
 ccttgtagga gataagcttg tcactgatga agatatgtgt cgctagcact ggtccacata 300  
 tggtcgctat ttctacactc gctatgacta tgagaatttt tatgcacggg ctgctaata 360  
 gcttattgct tacctag 377

<210> 1352  
 <211> 343  
 <212> DNA  
 <213> Zea mays

<400> 1352

gactggtggt ccgcctctct gggaccggtt ctgttggtgc caccatccgt gtctacatcg 60  
 agcagtacga gagggactcc tctaagaccg gcagggattc acaggacgcc cttgctccgc 120  
 tggttgatgt tgcgctcaag ctctccaaga tgcaagagta cactggacgc tctgccccca 180  
 ccgtcatcac ataaattttg aagtgtttta gaatgagttg aggcgcttac acaaactttc 240  
 attccggcct cttgttccat agtttttctt gcatgttaca tctcaccgat gaataaaatg 300  
 tatgtatcag acttgtctcg ttaaaaaaaaa aaagaaataa aaa 343

<210> 1353  
 <211> 293  
 <212> DNA  
 <213> Zea mays

<400> 1353

gccaaacaca tctttgtgga agagcttggt gctgatgaaa gctcactggt gaattgtgtc 60  
 ccgaaagagg actttggagg tggatcatcc gatcctaacc ttacctatgc aaaagagttg 120  
 gttgaacgca tgggtcttgg aaagtcatcc tcaaattgtg agcctcctga atttgggtgct 180  
 gcagctgatg gagatgctga ccgcaacatg attcttggtg aaagattctt tgtgacaccg 240  
 tcggactctg ttgccattat cgtaaccaat ggctgtcaat caattcctta ctt 293

<210> 1354  
 <211> 464  
 <212> DNA

<213>      Zea mays  
 <220>  
 <221>      unsure  
 <222>      (1)..(464)  
 <223>      unsure at all n locations  
 <400>      1354  
 aggatggagg caatggggag gaggagagaa atgtaaactc naanccgggg gggagcacgc    60  
 gttccgggca aaacatattt ttgggaaaaa cttttttctg atttaagggtt acaggtagaa    120  
 tgggggtcccg aaggaggcct ttgaagggtg caatccgatt cctaacctaa ctattccaaa    180  
 aaagttggtg gacccttgg tcttgaaaaa gcaatcctaa atggtgagcc ctctggattt    240  
 tgtgctgcag cttatggaga tgctgaccgc aacatgattc ttggtaaaag attctttgtg    300  
 acaccgtcgg actctgttgc cattatcgca gccaatgctg ttcaatcaat tccttacttt    360  
 gcttctggcc tgaagggagt tgccaggagc atgccaacat ctgctgccct tgatgttggt    420  
 gcaaagaatt tgaaccttaa gttctttgag gtgcctactg gatg                        464

<210>      1355  
 <211>      136  
 <212>      DNA  
 <213>      Zea mays  
 <400>      1355  
 gatccggtct gatgtttctg aagtagttgt tgctgacgag tttgagtaca aggatgctgt    60  
 ggatggctct gtgtccaagc accagggcat ccgatacctc tttggagatg gttcacgact    120  
 ggtgttccgc ctctct    136

<210>      1356  
 <211>      280  
 <212>      DNA  
 <213>      Zea mays  
 <400>      1356  
 atgagttgag gcgcttacac aaactttcat tccggcctct tgttccatag tttttcttgc    60  
 atgttacatc tcaccgatga ataaaatgta tgtatcagac ttgtctcggt tttttgccca    120  
 tccaagcagc aaattagccg ctggcacagc atgcggtaat aatcttgtca cagtgtgtga    180  
 attgggagcg tttttcttgt tagaagtgtt tctggtttgt ttgagcattt acggatcgat    240



ttttctttct gaagagtata taaacatttt actcacctgt 280

<210> 1357  
<211> 221  
<212> DNA  
<213> Zea mays

<400> 1357

gagttgaggc gcttacacaa actttcattc cggcctcttg ttccatagtt tttcttgcac 60  
gttacgtctc accgatgaat aaaatgtatg tatcagactt gtctcgtttt ttgcccac 120  
caagcagcaa attagccgct ggcacagcat gcggaataa tcttgtcaca gtgctgtagt 180  
tgaggagcgtt tttcttgtaa gaagtgtttc tggtttgttt g 221

<210> 1358  
<211> 350  
<212> DNA  
<213> Zea mays

<400> 1358

actcacaccc gatccctctt ccaccaccgg ctccctccgc gtcacccctc ctggtccgtc 60  
gcctcacaag gcgaccagcg ggcggaccct ccgcggcgca accatggggc tcttcactgt 120  
gacgaagaag gccaccacgc ccttcgacgg ccagaagccc ggcacctccg gcctccgcaa 180  
gaaggttact gtattccagc agccccatta tctgcagaac tttgtccaat caacattcaa 240  
tgcccttcct gtggatcaag taagagggtc aacaattgtt gtctctgggtg atggccgcta 300  
tttctcaaaa gatgctgttc agatcatcac aaaaatgggt gctgccaatg 350

<210> 1359  
<211> 409  
<212> DNA  
<213> Zea mays

<400> 1359

agccatcgcg tccgactcct tccctgccct ctcaactcaa atccctcctc caccaccgct 60  
tcctccgctg caccctctc gtcgtcgct cagcaggcga ccagcggcgg accctcgggg 120  
gcgcaaccat ggggtctctc actgtgacgg ggaaggccac cagcccttc gacggccaga 180  
agcccggcac ctccggcctc cgcaagaagg ttactgtatt ccagcatccc cattatctgc 240

agaactttgt ccaatcaaca ttcaatgccc ttctgtgga tcaagtaaga ggtgcaacaa 300  
 ttgttgcttc tggatgatttt ttctatttct caaaagatgc tgttcagatc ataacaaaaa 360  
 tggctgctgc caatggagta acacgtgttt gggttggaca aaacaatct 409

<210> 1360  
 <211> 396  
 <212> DNA  
 <213> Zea mays

<220>  
 <221> unsure  
 <222> (1)..(396)  
 <223> unsure at all n locations

<400> 1360

cccacgcgtc cgcccacgcg tccgggaaat cactccagaa ttttgaaaag gtgacggaaa 60  
 tagtgaggag cggagaacac cggaatgac catcctctcg tgctatccct gccctcccc 120  
 gctataatat cgcgccctcg tcgccatcgt caccacacca ccactccctc actgcctct 180  
 cactcccgat cctgcacca ctaccgcctc ctccgcgtca cccctctcgt cgctctctgc 240  
 ggcgaccggc ggcggatcgt ccgctgcgca agcgcaacca tggggctctt caccgtgacg 300  
 aagaaggcca tcacccctt cgaaagccag aagcccggtc cctnctgcct ncgcaagaag 360  
 gttactgtat tccagcagcc tcattatctg cagaac 396

<210> 1361  
 <211> 138  
 <212> DNA  
 <213> Zea mays

<400> 1361

caacactaac aacttggtgg tgaaccttaa agctgtcaag agactagtag agctgagcac 60  
 ttaagatgga attatcaacc cagaagtgat gggaaatctca cttgactgat ggacattcgt 120  
 cttcaacgtg atagtccg 138

<210> 1362  
 <211> 264  
 <212> DNA  
 <213> Zea mays

<400> 1362

cgttcaagaa ggttgggagc ttccttggtc gcttcaagtc catacctagc attggttgagc 60

ttgacatctt gaaggtttcc ggtgatgttt ggttcgggtc tggaattgta ctgaagggga 120

aagtgaccat cactgcaaaa cctggcggtc agctagaaat cccagacgga gcagtgattg 180

ggaataagga taattttgga aaaggaaaga gaaaacaata ccagatgcct tacaacctga 240

attagggatg aaactgctaa ttgc 264

<210> 1363

<211> 295

<212> DNA

<213> Zea mays

<400> 1363

gtcttagggtt attatagaag ttaaaatgtt attccaatga ggcaatgact actcacaatg 60

gaatatcacc ttgcttggtg gattatttac ggtgaagact ttagatata gtttgaactg 120

tacctcattt atagcgtatt tacataaatg tgatacccat ctgattgttg tgatttttga 180

tgtgtaaggt atcctcctgg tcatggtgat gtgtttcctt ctttgaataa cagcggaaaa 240

cttgacatct tattggctca gggcaaggag tatgtctttg ttgcaaactc agaca 295

<210> 1364

<211> 275

<212> DNA

<213> Zea mays

<400> 1364

agtcaaacct ctatagtctt aatgcaggat ctcgacaat gaggacaag cgggaatttc 60

ctacagtgcc cttggttaaa ttaggcagtt cttttacgaa ggttcaagat tatctacgaa 120

gatttgaaag tataccagat atgcttgaat tggatcacct cacagtctca ggagatgtga 180

catttggaag aaatgtttca ttacagggaa cggttatcat cattgcatat catggtgaca 240

cttttgatat cctcctgga gcagtattag agcac 275

<210> 1365

<211> 283

<212> DNA

<213> Zea mays

<400> 1365

gtggagtgaa accctagggtt taccgtggaa gaagaaagtc cattcggcgc gctctagggtg 60  
tttggcaaaa agcttaaacc ggaaatcgtc atcgccctta cacatatcga tttggtttat 120  
gacatgtctg atctatatac cttggttgat ggcttcgtta cacgtaattc agctaggact 180  
ttagggcaaa gtgatcatca ctgcaaaacc tggcgtcaag ctagaaatcc cagacggagc 240  
agtgattggg aataagattc caagttcaca cagcaggagt tgc 283

<210> 1366

<211> 234

<212> DNA

<213> Zea mays

<400> 1366

gacaaatcca tcaaaccct caattgaact tagtcctgag ttcaagaagg ttgcggagct 60  
tccttggtcg cttcaagtcg atacctagca ttcactgaca gcttgaagggt ttccggtgat 120  
gtttggttcg gttctggact tgtattgaag gggacagtga ccatcactgc aaaacctggc 180  
gtcaagctag aaatcccaga cggagcagtg attgggaata cggatatcag tggc 234

<210> 1367

<211> 212

<212> DNA

<213> Zea mays

<400> 1367

ctccaacatt gcaattcata ctttcaatca gagccagtat cctcgcattg ttaccgagga 60  
cttcttgcca cttccaagca aaggacatc ttggaaggat ggctggtatc ctccaggcca 120  
tggtgatgtg ttcccctctt tgaataacag tggaaaactc gacatcttat tggctcaggg 180  
caaggagtat gtcttcgttg ctaactagac aa 212

<210> 1368

<211> 274

<212> DNA

<213> Zea mays

<400> 1368

cccggcgtca gacgcgcac ttccagcaat ggcggacgag aagctgcca ctgcgcgaag 60

caccgccggc ctcacgcaga tcagcgataa cgagaagtcc ggcttcctca gcctcgtcgg 120  
 ccgctacctc agcggcgacg aggagcacat cgagtgggcc aagatccaca cgcccaccga 180  
 cgaggtggtg gtgccgtacg acaccctgga gtccccgcca gaaggcactg aggcgaccaa 240  
 gaagctgctc gacaagctcg ccgtgctcaa gctc 274

<210> 1369  
 <211> 248  
 <212> DNA  
 <213> Zea mays

<400> 1369

ctctcccaga tccgtctccc ggcgtcagac gcgcattctc cagcaatggc ggacgagaag 60  
 cttgccaaagc tgcgcgaacc accgccggcc tcacgcagat cagcgagaac gagaagtccg 120  
 gcttcctcag cctcgtcggc cgatacctca gtggcgacga ggagcacatc gagtgggcca 180  
 agatccacac gccaccgac gaggtggtgg tgccgtacga caccctggag tccccgccag 240  
 aaggcact 248

<210> 1370  
 <211> 186  
 <212> DNA  
 <213> Zea mays

<400> 1370

ctcccggcgt cagacgcgca tctccagcaa tggcggacga gaaacttgcc aagctgcgcg 60  
 aaccaccgcc ggcctcacgc agatcagcga gaacgagaag tccggcttcc tcagcctcgt 120  
 cggccgctac ctcagcggcg acgaggagca catcgagtgg gccaagatcc acacgcccac 180  
 cgacga 186

<210> 1371  
 <211> 323  
 <212> DNA  
 <213> Zea mays

<400> 1371

cagttaaagc gacatcagat ttgcagctag tacagtctga tctatatacc ttggttgatg 60  
 gcttcgttac acgtaattca gccagaacaa atccatcaaa tccctcaatt gaacttagtc 120

ctgagttcaa gaaggttggg agcttccttg gtcgcttcaa gtcgatacct agcattgttg 180  
agcttgacag cttgaagggt tccggtgatg tttggttcgg ttctggaatt gtattgaagg 240  
ggaaagtgac catcactgca aaacctggcg tcaagctaga aatcccagac ggagcagtga 300  
ttgggaataa ggatatcagt ggc 323

<210> 1372  
<211> 328  
<212> DNA  
<213> Zea mays

<400> 1372

cggacgcgtg gctgacgcgt gggcggacgc gtgggatgcc attggtatca acgttccaag 60  
gtcccgctat cctaccagtt aaggcgacat cagcatttgc agctagtaca gtctgatcta 120  
tataccttgg ttgatggctt cggtacacgt aattcagcca gaacaaatcc atcaaatcca 180  
tcaattgaac ttggtcctga gttcaagaag gttgggagct tccttggtcg cttcaagtcg 240  
atacctagca ttgttgagct tgacagcttg aagggtttccg gtgatgtttg gttcggttct 300  
ggaatgtact gaacgggaaa gtgaccat 328

<210> 1373  
<211> 301  
<212> DNA  
<213> Zea mays

<400> 1373

ggaccagttc tttgaccatg ccattggtat caacgttcca aggtcccgct tcctaccagt 60  
taaggcgaca tcagatttgc agctagtaca gtctgatcta tataccttgg ttgatggctt 120  
cggtacacgt aattcagcca gaacaaatcc atcaaatccc tcaattgaac ttggtcctga 180  
gttcaagaag gttgggagct tccttggtcg cttcaagtcc atacctagca ttgttgagct 240  
tgacatcttg aagggtttccg gtgatgtttg gttcggttct ggaattgtac tgaaggggaa 300  
a 301

<210> 1374  
<211> 349  
<212> DNA  
<213> Zea mays

<400> 1374

agagccagta tcctcgcatt gttaccgagg acttcttgcc acttccaagc aaagggaaat 60

ctggtaagga tggctggtat cctccaggcc atggtgatgt gttcccctct ttgaataaca 120

gtggaaaact cgacatctta ttggctcaag gcaaggagta tgtcttcatt gctaactcag 180

acaacttggg tgctatagtc gacatcaaga tcctgaacca tctgatcaat aaccagaatg 240

aatactgcat ggaggttact ccaaaaacat tggctgatgt taaaggcggt actctcatct 300

cttacgaagg aagagttcag cttttggaga ttgcccaagt acctgatga 349

<210> 1375

<211> 357

<212> DNA

<213> Zea mays

<400> 1375

agttgatggt gtgaaagtcc ttcaactcga aaccgcagct ggtgcagcta ttcggttctt 60

cgacaaagcg attggaatta atgttccccg ctcaagggtt ctcccagtga aggctacatc 120

tgatctgttg cttgtgcagt ctgatcttta caccttggtt gatggctttg tcatccgcaa 180

cccatccaga gcgaatccag ctaacccttc aattgagctt ggacctgagt tcaagaaggt 240

tgccaatttc cttgctcggt tcaagtccat ccccagcata gttgagcttg acagcttgaa 300

ggtttctggt gatgtctggt ttggctctgg aattacactc aagggaagg tgacaat 357

<210> 1376

<211> 314

<212> DNA

<213> Zea mays

<400> 1376

gcgagaacga gaagtccggg ttcacagcc tcgtgtcacg gtacctcagt ggggacgctg 60

acagatcgag tggagcaaga tccagacccc tacggatgag gtggtggtgc cctacgatac 120

cgtcgcgtcg cctcccgaag atctcgagga gacgaagaag ctgctggata agctcgttgt 180

gctcaagctt aacggagggc tcgggacgac catgggctgc actgggcca agtctgtcat 240

tgaagtccgc aatgggttca cattccttga ccttattgtg attcaaattg agtccttgaa 300

caagaagtat ggat 314

<210> 1377  
 <211> 309  
 <212> DNA  
 <213> Zea mays

<400> 1377

ctacgatacc gtcgcgtcgc ctcccgaaga tctcgaggag acgaagaagc tgctggataa 60  
 gctcgttggtg ctcaagctta acggagggct cgggacgacc atgggctgca ctgggcccac 120  
 gtctgtcatt gaagtccgca atgggttcac attccttgac cttattgtga ttcaaattga 180  
 gtccctgaac aagaagtatg gatgcaatgt ccctttactt ctgatgaact ctttcaacac 240  
 ccatgatgac acacagaaga ttgttgagaa gtattccaac tccaacatcg aaattcatac 300  
 tttcaatca 309

<210> 1378  
 <211> 302  
 <212> DNA  
 <213> Zea mays

<400> 1378

gttgagaagt attccaactc caacattgaa attcatactt tcaatcagag ccagtatcct 60  
 cgcattgtta ccgaggactt cttgccactt ccaagcaaag ggaaatctgg gaaggatggc 120  
 tgggtatcctc caggccatgg tgatgtgttc ccctctttga ataacagtgg aaaactcgac 180  
 atcttattgg ctcagggcaa ggagtatgtc ttcgttgcta actcagacaa cttgggtgct 240  
 atagtcgaca tcaagatcct gaaccatctg atcaataacc agaatagaata ctgcatggag 300  
 gt 302

<210> 1379  
 <211> 319  
 <212> DNA  
 <213> Zea mays

<400> 1379

ccacgcgtcc gggagcagat cgagtggagc aagatccaga ccctacgga tgaggtggtg 60  
 gtgccctacg ataccgtcgc gtcgcctccc gaagatctcg aggagacgaa gaagctgctg 120  
 gataagctcg ttgtgctcaa gcttaacgga gggctcggga cgaccatggg ctgcactggg 180



cccaagtctg tcattgaagt ccgcaatggg ttcacattcc ttgaccttat tgtgattcaa 240  
 attgagtccc tgaacaagaa gtatggatgc aatgtccctt tacttctgat gaactctttc 300  
 aacacccatg atgacacac 319

<210> 1380  
 <211> 322  
 <212> DNA  
 <213> Zea mays

<400> 1380

cccacgcgtc cgatcttatt ggctcagggc aaagagtatg tctttgttgc aaactcagac 60  
 aacttgggtg ctatagtcga catcaagatc ctaaaccatc tgatcaataa ccagaacgag 120  
 tactgcatgg aggttactcc aaagacgctg gctgacgtta aggggtggcac tctcatctct 180  
 tacgaaggaa gagttcagct tttggagatt gccaagtac ccgatgagca tgtgaatgaa 240  
 tttaaataca tcgagaagtt taagatatcc aacactaaca acttgtgggt gaaccttaaa 300  
 gctatcaaga gactcgtaga gg 322

<210> 1381  
 <211> 328  
 <212> DNA  
 <213> Zea mays

<400> 1381

ggttaagata ttcaacacta acaacttgtg ggtgaacctt aaagctgtca agagactagt 60  
 agaggctgag gcacttaaga tggaaattat tccaaacccc aaggaagttg atgggtgtgaa 120  
 agtccttcaa tttgaaactg cagctgggtg agctattcgt ttctttgaca aagcgattgg 180  
 aattaatggt ccccgctcaa gatttctccc agtgaaggct acatctgatt tattgcttgt 240  
 gcagtctgat ctttacacct tggtcgatgg ctttgtcatc cgcaacccat ccagaacgaa 300  
 tccagetaat ccttcgattg agcttgga 328

<210> 1382  
 <211> 286  
 <212> DNA  
 <213> Zea mays

<400> 1382

aattaatgtt ccccgctcaa ggtttctccc agtgaaggct acatctgata tgttgcttgt 60  
gcagtctgat ctttacacct tggttgatgg ctttgtcatc cgcaacccat ccagagcgaa 120  
tccagctaac ccttcaattg agcttggacc tgagttcaag aagggtgcca atttccttgc 180  
tcggttcaag tccatcccca gcatagttga gcttgacagc ttgaaggttt ctggtgatgt 240  
ctggtttggc tctggaatta cactcaaggg caaggtgaca attatc 286

<210> 1383  
<211> 302  
<212> DNA  
<213> Zea mays  
<400> 1383

caagagactc gtagagctga ggcacttaag atggaaatta ttccaaaccc caaggaagtt 60  
gatggtgtga aagtccttca actcgaaacc gcagctgggtg cagctattcg gttcttcgac 120  
aaagcgattg gaattaatgt tccccgctca aggtttctcc cagtgaaggc tacatctgat 180  
ctggtgcttg tgcagtctga tctttacacc ttggttgatg gctttgtcat ccgcaaccca 240  
tccagagcga atccagctaa cccttcaatt gagcttggac ctgagttcaa gaaggttgcc 300  
aa 302

<210> 1384  
<211> 305  
<212> DNA  
<213> Zea mays  
<400> 1384

gcactctcat ctcttacgaa ggaagagttc agcttttgga gattgcccaa gtacccgatg 60  
agcatgtgaa tgaatttaaa tcaatcgaga agtttaagat attcaacact aacaacttgt 120  
gggtgaacct taaagctatc aagagactcg tagaggctga ggcacttaag atggaaatta 180  
ttccaaaccc caaggaagtt gatggtgtga aagtccttca actcgaaacc gcagctgggtg 240  
cagctattcg gttcttcgac aaagcgattg gaattaatgt tccccgctca aggtttctcc 300  
cagtg 305

<210> 1385  
<211> 321  
<212> DNA

<213> Zea mays  
 <400> 1385

cggacgcgtg gggacgagaa gctcgataag cttcgcgccg aggtcgccaa gctcgaccag 60  
 atcagcgaga acgagaagtc cgggttcatac agcctcgtgt cacggtacct cagtcgggag 120  
 gcggacagat cgagtggagc aagatccaga cccctacgga tgaggtggtg gtgccctacg 180  
 ataccgtcgc gtcgcctccc gaagatctcg aggagacgaa gaagctgctg gataagctcg 240  
 ttgtgctcaa gcttaacgga gggctcggga cgaccatggg ctgcactggg cccaagtctg 300  
 tcattgaagt ccgcaatggg t 321

<210> 1386  
 <211> 307  
 <212> DNA  
 <213> Zea mays

<400> 1386

ctcgagccgc tctgcagtcc ctgaacaaga agtatggatg caatgtccct ttacttctga 60  
 tgaactcttt caacacccat gatgacacac agaagattgt tgagaagtat tccaactcca 120  
 acatcgaaat tcatactttc aatcagagcc agtatcctcg cattgttacc gaggacttct 180  
 tgccacttcc cagcaaaggg aaatctggga aggatggctg gtatcctcct ggcatgggtg 240  
 atgtgtttcc ttctttgaat aacagcggaa aacgtgacat cttattggct cagggcaagg 300  
 agtatgt 307

<210> 1387  
 <211> 276  
 <212> DNA  
 <213> Zea mays

<400> 1387

cggagggctc gggacgacca tgggctgcac tgggcccag tctgtcattg aagtccgcaa 60  
 tgggtacaca ttcttgacc ttattgtgat tcaaattgag tcctgaaca agaagtatgg 120  
 atgcaatgtc cctttacttc tgatgaactc tttcaacacc catgatgaca cacagaagat 180  
 tgttgagaag tattccaact ccaacatcga aattcatact ttcatttcag agccagtatc 240  
 ctgcattgt taccgaggac ttcttgccac ttccca 276

<210> 1388  
 <211> 298  
 <212> DNA  
 <213> Zea mays  
 <400> 1388

tgtcccttta cttctgatga actctttcaa caccatgat gacacacaga agattgttga 60  
 gaagtattcc aactccaaca tcgaaattca tactttcaat cagagccagt atcctcgcat 120  
 tgttaccgag gacttcttgc cacttcccag caaagggaaa tctgggaagg atggctggta 180  
 tcctcctggt catggtgatg tgtttccttc tttgaataac agcggaaaac ttgacatctt 240  
 attggctcag ggcaaggagt atgtctttgt tgcaaactca gacaacttgg gtgctata 298

<210> 1389  
 <211> 287  
 <212> DNA  
 <213> Zea mays  
 <400> 1389

attgttgaga agtattccaa ctccaacatc gaaattcata ctttcaatca gagccagtat 60  
 cctcgcatg ttaccgagga cttcttgcca cttcccagca aagggaaatc tgggaaggat 120  
 ggctggatc ctctcgttca tggatgatg tttccttctt tgaataacag cggaaaactt 180  
 gacatcttat tggctcaggg caaggagtat gtctttgttg caaactcaga caacttgggt 240  
 gctatagtcg acatcaagat cctaaaccat ctgatcaata accagaa 287

<210> 1390  
 <211> 291  
 <212> DNA  
 <213> Zea mays  
 <400> 1390

ggaggttact caaaaaacat tggctgatgt taaaggcggc actctcatct cttacgaagg 60  
 aagagttcag cttttggaga ttgcccaagt acctgatgag catgtgaatg agtttaaadc 120  
 aatcgagaag tttaagatat tcaacactaa caacttgttg gtgaacctta aagctgtcaa 180  
 gagactagta gaggctgagg cacttaagat ggaaattatt ccaaacccca aggaagttga 240  
 tgggtgtgaaa gtccttcaac ttgaaactgc agctgggtgca gctattcggt t 291

<210> 1391  
 <211> 271  
 <212> DNA  
 <213> Zea mays  
  
 <400> 1391  
  
 gcttaacgga gggctcggga cgaccatggg ctgcactggg cccaagtctg tcattgaagt 60  
 ccgcaatggg ttcacattcc ttgaccttat tgtgattcaa attgagtccc tgaacaagaa 120  
 gtatggatgc aatgtccctt tactttctgat gaactctttc aacacccatg atgacacaca 180  
 gaagattggt gagaagtatt ccaactccaa catcgaaatt catactttca atcagagcca 240  
 gtatcctcgc attgtaaccg aggacttctt g 271

<210> 1392  
 <211> 340  
 <212> DNA  
 <213> Zea mays  
  
 <400> 1392  
  
 tgggttcaca ttccttgacc ttattgtgat tcaaattgag tccctgaaaa agaagtatgg 60  
 atgcaatgtc gctttacttc tgatggacta tttcaacacc catgatgaca cacagaagat 120  
 tgttgagaag tattccaact ccaacatcga aattcatact ttcaatcaga gccagtatcc 180  
 tcgcattggt accgaggact tcttgccact tcccagcaaa gggaaatctg ggaaggatgg 240  
 ctggtatcct cctggtcatg gtgatgtgtt tccctctgtt gaataacagc ggaaaacttg 300  
 acatcttatt ggctcagggc aaagagtatg tctttgttga 340

<210> 1393  
 <211> 257  
 <212> DNA  
 <213> Zea mays  
  
 <400> 1393  
  
 agctcgttgt gctcaagctt aacggagggc tcgggacgac catgggctgc actgggccca 60  
 agtctgtcat tgaagtcgc aatgggttca cattccttga ccttattgtg attcaaattg 120  
 agtccttgaa caagaagtat ggatgcaatg tccctttact tctgatgaac tctttcaaca 180  
 cccatgatga cacacagaag attggttgaga agtattccaa ctccaacatc gaaattcata 240

ctttcaatca gagccag

257

<210> 1394

<211> 269

<212> DNA

<213> Zea mays

<400> 1394

caaattgagt ccctgaacaa gaagtatgga tgcaatgtcc ccttacttct gatgaactct 60

ttcaacaccc atgatgacac acagaagatt gttgagaagt attccaactc caacatcgaa 120

attcatactt tcaatcagag ccagtatcct cgcattgtta ccgaggactt cttgccactt 180

cccagcaaag ggaaatctgg gaaggatggc tggatcctc ctggatcatgg tgatgtgttt 240

ccttctttga ataacagcgg aaaacttga 269

<210> 1395

<211> 264

<212> DNA

<213> Zea mays

<400> 1395

ctcgcattgt taccgaggac ttcttgccac ttccaagcaa agggaaatct gggaaggatg 60

gctggtatcc tccaggccat ggtgatgtgt tcccctcttt gaataacagt ggaaaactcg 120

acatcttatt ggctcagggc aaggagtatg tcttcgttgc taactcagac aacttgggtg 180

ctatagtcca catcaagatc ctgaaccatc tgatcaataa ccagaatgaa tactgcatgg 240

aggttactcc aaaaacattg gctg 264

<210> 1396

<211> 297

<212> DNA

<213> Zea mays

<400> 1396

ggacgcgggc ttgtgcagtc tgatctttac accttggttg atggctttga gtcgcaac 60

ccatccagag cgaatccagc taacccttca attgagcttg gacctgagtt caagaagggt 120

gccaatttcc ttgctcggtt caagtccatc cccagcatag ttgagcttga cagcttgaag 180

gtttctggtg atgtctggtt tggctctgga attacactca agggcaagggt gacaattatc 240

gccaaagcctg gagtgaagtt ggagattcca gatggagacg tacttgagaa caaggat 297

<210> 1397  
<211> 281  
<212> DNA  
<213> Zea mays

<400> 1397

gaaagtcctt caactcgaaa ccgcagctgg tgcagctatt cggttcttcg acaaagcgat 60  
tggaattaat gttccccgct caaggtttct ccagtggaag gctacatctg atctgttgct 120  
tgtgcagtct gatctttaca ccttggttga tggctttgtc atccgcaacc catccagagc 180  
gaatccagct aacccttcaa ttgagcttgg acctgagttc aagaagggtg ccaatttcct 240  
tgctcgggtc aagtccatcc ccagcatagt tgagcttgac a 281

<210> 1398  
<211> 263  
<212> DNA  
<213> Zea mays

<400> 1398

ccagaatgaa tactgcatgg aggttactcc aaaaacattg gctgatgtta aaggcggtag 60  
tctcatctct tacgaaggaa gagttcagct tttggagatt gcccaagtag ctgatgagca 120  
tgtgaatgag tttaaataca tcgagaagtt taagatatcc aacactaaca acttgtgggt 180  
gaaccttaaa gctgtcaaga gactagtaga ggctgaggca cttaagatgg aaattattcc 240  
aaaccccaag gaagttgatg gtg 263

<210> 1399  
<211> 288  
<212> DNA  
<213> Zea mays

<400> 1399

cccacgcgtc cggcccaagt acccgatgag catgtgaatg aatttaaata aatcgagaag 60  
ttaagatat tcaacactaa caacttgtgg gtgaacctta aagctatcaa gagactcgta 120  
gaggctgagg cacttaagat ggaaattatt ccaaaccaca aggaagttga tgggtgtgaaa 180  
gtccttcaac tcgaaaccgc agctgggtgca gctattcggg tcttcgacaa agcgattgga 240

attaatgttc cccgctcaag gtttctccca gtgaaggcta catctgat 288

<210> 1400  
<211> 278  
<212> DNA  
<213> Zea mays

<400> 1400

cccacgcgtc cgcaagaagt atggatgcaa tgccccctta cttctgatga actctttcaa 60  
caccatgat gacacacaga agattgttga gaagtattcc aactccaaca tcgaaattca 120  
tactttcaat cagagccagt atcctcgcat tgttaccgag gacttcttgc cacttcccag 180  
caaagggaaa tctgggaagg atggctggta tcctcctggc catggtgatg tgtttccctc 240  
tttgaataac agcggaaaac ttgacatctt attggctc 278

<210> 1401  
<211> 278  
<212> DNA  
<213> Zea mays

<400> 1401

gcgagaacga gaagtccggg ttcacagcc tcgtgtcacg ctacctcagt ggggaagcgg 60  
acagatcgag tggagcaaga tccagacccc tacggatgag gtggtggtgc cctacgatac 120  
cgtcgcgtcg cctcccgaag atctcgagga gacgagaagc tgctggataa gctcgttgtg 180  
ctcaagctta acggagggct cgggacgacc atgggctgca ctgggcccac gtctgtcatt 240  
gaagtccgca atgggttcac attccttgat cttattgt 278

<210> 1402  
<211> 282  
<212> DNA  
<213> Zea mays

<400> 1402

atctttacac cttggttgat ggctttgtca tccgcaatcc atccagagcg aatccagcta 60  
acccttcgat tgagcttga cctgagttca agaagggtgc caatttcctt gctcggttca 120  
agtccatccc cagcatcgtc gagcttgaca gcttgaaggc ttctggtgat gtctggtttg 180  
gttctggaat tacgctcaag ggcaagggtga caatcaccgc caagtctgga gtgaagttgg 240



aggttccaga tggagctgta tatgaaaaca aggatgtcaa tg 282

<210> 1403

<211> 270

<212> DNA

<213> Zea mays

<400> 1403

gtccttcaac tcgaaaccgc agctggtgca gctattcggt tcttcgacaa agcgattgga 60

attaatgttc cccgctcaag gtttctccca gtgaaggcta catctgatct gttgcttgtg 120

cagtctgatc ttacacctt ggttgatggc tttgtcatcc gcaaccatc cagagcgaat 180

ccagctaacc cttcaattga gcttggaact gagttcaaga aggttgccaa tttccttgct 240

cggttcaagt ccatccccag catagttgag 270

<210> 1404

<211> 270

<212> DNA

<213> Zea mays

<400> 1404

ggaggttact ccaaagacgc tggctgacgt taagggtggc actctcatct cttacgaagg 60

aagagttcag cttttggaga ttgcccaagt acccgatgag catgtgaatg aatttaaattc 120

aatcgagaag ttttaagatat tcaacactaa caacttgtgg gtgaacctta aagctatcaa 180

gagactcgta gaggctgagg cacttaagat ggaaattatt ccaaacccca aggaagttga 240

tgggtgtgaaa gtccttcaac tcgaaaccgc 270

<210> 1405

<211> 263

<212> DNA

<213> Zea mays

<400> 1405

tgatgacaca cagaagattg ttgagaagta ttccaactcc aacatcgaaa ttcatacttt 60

caatcagagc cagtatcttc gcattgttac cgaggacttc ttgccacttc ccagcaaagg 120

gaaatctggg aaggatggct ggtatcctcc tggatcatgg gatgtgtttc cttctttgaa 180

taacagcgga aaacttgaca tcttattggc tcagggaag gagtatgtct ttgttgcaaa 240

ctcagacaac ttgggtgcta tag 263

<210> 1406  
<211> 263  
<212> DNA  
<213> Zea mays

<400> 1406

gcaaggagta tgtctttgtt gcaaactcag acaacttggg tgctatagtc gacatcaaga 60  
tcctaaacca tctgatcaat aaccagaacg agtactgcat ggagggttact ccaaagacgc 120  
tggctgacgt taaggggtggc actctcatct cttacgaagg aagagttcag cttttggaga 180  
ttgcccgaagt acccgatgag catgtgaatg aatttaaadc aatcgagaag tttaagatat 240  
tcaacactaa caacttgtgg gtg 263

<210> 1407  
<211> 273  
<212> DNA  
<213> Zea mays

<400> 1407

aagaagtatt ccaactccaa catcgaaatt catactttca atcagagcca gtatcctcgc 60  
attgttaccg aggacttctt gccacttccc agcaaaggga aatctgggaa ggatggctgg 120  
tatectctcg gtcattgtga tgtgtttccc tctttgaata acagcggaaa acttgacatc 180  
ttattggctc agggcaaaga gtatgtcttt gttgcaaact cagacaactg ggggtgctata 240  
gtcgacatca agatcctaaa ccatctgac aat 273

<210> 1408  
<211> 271  
<212> DNA  
<213> Zea mays

<220>  
<221> unsure  
<222> (1)..(271)  
<223> unsure at all n locations

<400> 1408

ccgcaatggg ttcacattcc ttgaccttat tgtgattcaa attgagtcctc tgaacaagaa 60  
gtaggatgca agtcctttac ttctgatgaa ctctttcaac acccatgatg acacacagaa 120

gattgttgag aagtattcca actccaacat cgaaattcat actttcaatc agagccagta 180  
tctctgcatt gttaccgagg acttcttgcc acttcccagc aaagggaaat ctgnngagga 240  
tggttggtat cctcctgggc atggtgatgt g 271

<210> 1409  
<211> 227  
<212> DNA  
<213> Zea mays

<400> 1409

aagctatcaa gagactcgta gaggctgagg cacttaagat ggaaattatt ccaaacccca 60  
aggaagttga tgggtgtgaaa gtccttcaac tcgaaaccgc agctggtgca gctattcggt 120  
tcttcgacaa agcgattgga attaatgttc cccgctcaag gtttctccca gtgaaggcta 180  
catctgatct gttgcttggtg cagtctgata tttacacctt ggttgat 227

<210> 1410  
<211> 273  
<212> DNA  
<213> Zea mays

<400> 1410

aaaggcggta ctctcatctc ttacgaagga agagttcagc ttttgagat tgcccaagta 60  
cctgatgagc atgtgaatga gtttaaatac atcgagaagt ttaagatatt caacactaac 120  
aacttggtggg tgaaccttaa agctgtcaag agactagtag aggctgaggc acttaagatg 180  
gaaattattc caaaccctaa ggaagttgat ggtgtgaaaag tccttcaact tgaaactgca 240  
gctggtgcag ctattcgttt ctttgacaaa gcg 273

<210> 1411  
<211> 255  
<212> DNA  
<213> Zea mays

<400> 1411

gcggacagat cgagtggagc aagatccaga cccctacgga tgaggtggtg gtgccctacg 60  
atacgtcgc gtcgcctccc gaagatctcg aggagacgaa gaagctgctg gataagctcg 120  
ttgtgctcaa gcttaacgga gggctcggga cgaccatggg ctgcactggg cccaagtctg 180

tcattgaagt ccgcaatggg ttcacattcc ttgaccttat tgtgattcaa attgagtccc 240  
tgaacaagaa gtatg 255

<210> 1412  
<211> 259  
<212> DNA  
<213> Zea mays

<400> 1412

agggcaagga gtatgtcttt gttgcaaact cagacaactt gggtgctata gtcgacatca 60  
agatcctaaa ccatctgata aataaccaga acgagtactg catggagggt actccaaaga 120  
cgctggctga cgtaagggt ggcactctca tctcttacga aggaagagtt cagcttttgg 180  
agattgccc agtacccgat gagcatgtga atgaatttaa atcaatcgag aagtttaaga 240  
tattcaacac taacaactt 259

<210> 1413  
<211> 265  
<212> DNA  
<213> Zea mays

<400> 1413

tcctcgcat gttaccgagg acttcttgcc acttcccagc aaagggaat ctgggaagga 60  
tggttggtat cctctgggc atggtgatgt gtttccctct ttgaataaca gcggaaaact 120  
tgacatctta ttggctcagg gcaaagagta tgtctttggt gcaaactcag acaacttggg 180  
tgctatagtc gacatcaaga tcctaaacca tctgatcaat aaccagaacg agtactgcat 240  
ggaggttact ccaaagacgc tggct 265

<210> 1414  
<211> 278  
<212> DNA  
<213> Zea mays

<400> 1414

caagtaccg atgagcatgt gaatgaattt aaatcaatcg agaagtttaa gatattcaac 60  
actaacaact tgtgggtgaa ccttaaagct atcaagagac tcgtagaggc tgaggcactt 120  
aagatggaaa ttattccaaa cccaaggaa gttgatggtg tgaaagtcct tcaactcgaa 180

accgcagctg gtgcagctat tcggttcttc gacaaagcga ttggaattaa tgttccgcgc 240  
tcaaggtttc tcccagtga ggctacatct gatctggt 278

<210> 1415  
<211> 269  
<212> DNA  
<213> Zea mays

<400> 1415

gggaaatctg ggaaggatgg ctggtatcct cctggtcatg gtgatgtgtt tccttctttg 60  
aataacagcg gaaaacttga catcttattg gctcagggca aggagtatgt ctttgttgca 120  
aactcagaca acttgggtgc tatagtcgac atcaagatcc taaaccatct gatcaataac 180  
cagaacgagt actgcatgga ggttactcca aagacgctgg ctgacgttaa ggggtggcact 240  
ctcatctctt acgaaggaag agttcagct 269

<210> 1416  
<211> 293  
<212> DNA  
<213> Zea mays

<400> 1416

aagctatcaa gagactcgta gaggctgagg cacttaagat ggaaattatt ccaaacccca 60  
aggaagttga tgggtgtgaaa gtccttcaac tcgtaaccgc agctgggtgca gctattcggt 120  
tcttcgacta agcgattgga ataatgttcc ccgcacatag aatctcccag tgaaggctac 180  
atctgatctg ttgcttgtgc agtctgatct ttacaccttg gttgatggct ttgtcatccg 240  
caacccatcc agagcgaatc cagctaacc ttcaattgag cttggacctg agt 293

<210> 1417  
<211> 329  
<212> DNA  
<213> Zea mays

<400> 1417

ccgcaatcca tccagagcga atccagctaa cccttcgatt gagcttggac ctgagttcaa 60  
gaaggttgcc aatttccttg ctcggttcaa gtccatcccc agcatcgctg agcttgacag 120  
cttgaagggt tctggtgatg tctggtttgg ttctggaatt acgctcaagg gcaagggtgac 180

aatcaccgcc aagtctggag tgaagttgga ggttcagat ggagctgtat ttgaaaacaa 240  
ggatgtcaat ggcctgagg atctttaagc tagcttgccg tcaccagttt ttcccaagga 300  
tttgtcaata ggagcagcca acccaaata 329

<210> 1418  
<211> 262  
<212> DNA  
<213> Zea mays

<400> 1418

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attggaatta atgttccccg ctcaagattt ctcccggtga aggctacatc tgatttattg 120  
cttgtgcagt ctgatcttta caccttggtt gatggctttg tcatccgcaa tccatccaga 180  
gcgaatccag ctaacccttc gattgagctt ggacctgagt tcaagaaggt tgccaatttc 240  
cttgctcggt tcaagtccat cc 262

<210> 1419  
<211> 259  
<212> DNA  
<213> Zea mays

<400> 1419

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gtaccgatg agcatgtgaa tgaatttaaa tcaatcgaga agtttaagat attcaacact 120  
aacaacttgt gggatgaacct taaagctatc aagagactcg tagaggctga ggcacttaag 180  
atggaaatta ttccaaacct caaggaagtt gatgggtgta aagtccttca actcgaaacc 240  
gcagctgggtg cagctattc 259

<210> 1420  
<211> 252  
<212> DNA  
<213> Zea mays

<400> 1420

ctttacacct tggttgatgg ctttgtcatc cgcaacccat ccagagcgaa tccagctaac 60  
ccttcaattg agcttggacc tgagttcaag aaggttgcca atttccttgc tcggttcaag 120

tccatcccca gcatagttga gcttgacagc ttgaaggttt ctggtgatgt ctggtttggc 180  
tctggaatta cactcaaggg caaggtgaca attatcgcca agcctggagt gaagttggag 240  
attccagatg ga 252

<210> 1421  
<211> 302  
<212> DNA  
<213> Zea mays

<400> 1421

cgtttcgaag cctcgcgagc cccgacgatg gccaccaccg cgggtgcggt cgacgagaag 60  
ctcgataagc ttcgcgccga ggtcgccaag ctcgaccaga tcagcgagaa cgagaagtcc 120  
gggttcatca gcctcgtgtc acggtacctc agtggggagg cggacagatc gagtggagca 180  
agatccagac ccctacggat gacgtggtgg tgccctacga taccgtcgcg tcgcctcccg 240  
aagatctcga ggagacgaag aagctgctgg ataagctcgt tgtgctcaag cttaacggag 300  
gg 302

<210> 1422  
<211> 249  
<212> DNA  
<213> Zea mays

<400> 1422

cggctcgagt caaagggat ctgggctctg gttgaaagta tgaatttcga tggttgagtt 60  
ggaatacttc tcaacaatct tctgtgtgtc atcatgggtg ttgaaagagt tcatcagaag 120  
taaagggaca ttgcatccat acttcttgtt cagggactca atttgaatca caataaggtc 180  
aaggaatgtg aaccattgc ggacttcaat gacagacttg ggcccagtgc agcccatggt 240  
cgtcccag 249

<210> 1423  
<211> 283  
<212> DNA  
<213> Zea mays

<400> 1423

ccttaagata ttcaagacta acaacttgtg ggtgaacctt aaagctatca agagactcgt 60

agacgctgag gcacttaaga tggcgattat tccaaacccc aaggaagttg atggtgtgaa 120  
 agtccttcaa ctcgaaaccg cagctgggtgc agctattcgg ttcttcgaca aagcgattgg 180  
 aattaatgtt ccccgctcaa ggtttctccc agtgaaggct acatctgata tgttgcttgt 240  
 gcagtctgat ctttacagct tggttgatgg ctttgtcatc cgc 283

<210> 1424  
 <211> 270  
 <212> DNA  
 <213> Zea mays

<400> 1424

agcgaatcca gctaaccctt caattgagct tggacctgag ttcaagaagg ttgccaat 60  
 ccttgctcgg ttcaagtcca tccccagcat agttgagctt gacagcttga aggtttctgg 120  
 tgatgtctgg tttggctctg gaattacact caagggcaag gtgacaatta tcgccaagcc 180  
 tggagtgaag ttggagattc cagatggaga cgtacttgag aacaaggatg tcaatggccc 240  
 tgaggatctt taagcaatgt ttgtcatcac 270

<210> 1425  
 <211> 258  
 <212> DNA  
 <213> Zea mays

<400> 1425

tggagattgc ccaagtacct gatgagcatg tgaatgagtt taaatcaatc gagaagttaa 60  
 agatattcaa cactaacaac ttgtgggtga accttaaagc tgtcaagaga ctagtagagg 120  
 ctgaggcact taagatggaa attattccaa accccaagga agttgatggg gtgaaagtcc 180  
 ttcaacttga aactgcagct ggtgcagcta ttcgtttctt tgacaaagcg attggagtta 240  
 atgttccccg ctcaagat 258

<210> 1426  
 <211> 307  
 <212> DNA  
 <213> Zea mays

<400> 1426

gcagcttaaa gctatcaaga gactcgtaga ggctgaggca cttaagatgg aaattattcc 60



aaacccaag gaagttgatg gtgtgaaagt ccttcaactc gaaaccgcag ctggtgcagc 120  
tattcggttc ttcgacaaag cgattggaat taatgttccc cgctcaaggt ttctcccagt 180  
gaaggctaca tctgatctgt tgcttgtgca gtctgatctt tacaccttgg ttgatggctt 240  
tgtcatccgc aacccatcca gagcgaatcc agctaaccct tcaattgagc ttggagctga 300  
gttcaag 307

<210> 1427  
<211> 230  
<212> DNA  
<213> Zea mays

<400> 1427

ctacatctga tctgttgctt gtgcagtctg atctttacac cttggttgat ggctttgtca 60  
tccgcaaccc atccagagcg aatccagcta acccttcaat tgagcttgga cctgagttca 120  
agaaggttgc caatttcctt gctcggttca agtccatccc cagcatagtt gagcttgaca 180  
gcttgaaggt ttctggtgat gtctggtttg gctctggaat tacactcaag 230

<210> 1428  
<211> 271  
<212> DNA  
<213> Zea mays

<400> 1428

ggcacttaag atggaaatta ttccaaaccc caaggaagtt gatggtgtga aagtccttca 60  
actcgaaacc gcagctggtg cagctattcg gttcttcgac aaagcgattg gaattaatgt 120  
tccccgctca aggtttctcc cagtgaaggc tacatctgat ctgttgcttg tgcagtctga 180  
tctttacacc ttggttgatg gctttgtcat ccgcaaccca tccagagcga atccagctaa 240  
cccttcaatt gagcttggaac ctgagttcaa g 271

<210> 1429  
<211> 243  
<212> DNA  
<213> Zea mays

<400> 1429

cccacgcgtc cgggtgttcc ttcggtgaat aacagcggaa aacttgacat cttattggct 60

cagggcaagg agtatgtctt tgttgcaaac tcagacaact tgggtgctat agtcgacatc 120  
aagatcctaa accatctgat caataaccag aacgagtact gcatggaggt tactccaaag 180  
acgctggctg acgttaaggg tggcactctc atctcttacg aaggaagagt tcagcttttg 240  
gag 243

<210> 1430  
<211> 317  
<212> DNA  
<213> Zea mays

<400> 1430

ggcacacaca ccacaccaca cctcctcgtt tccactccgc tcgtctgaca tctcgtcccg 60  
tcctttcgtt tcgaagcctc gcgagccccg acgatggcca ccgccgcggt gtcggtcgac 120  
gagaagctcg acaagcttcg cgccgaggtc gccaaagctcg accagatcag cgagaacgag 180  
aagtccgggt tcatcagcct cgtgtcacgc tacctcagtg gggaagcgga gcagatcgag 240  
tggagcaaga tccagacccc tacggatgag gtggtggtgc cctacgatac cgtcgcgtcg 300  
cctcccgaag atctcga 317

<210> 1431  
<211> 242  
<212> DNA  
<213> Zea mays

<400> 1431

cttcgacaaa gcgattggaa ttaatgttcc ccgctcaagg tttctcccag tgaaggctac 60  
atctgatctg ttgcttgtgc agtctgatct ttacaccttg gttgatggct ttgtcatccg 120  
caacccatcc agagcgaatc cagctaacc ttcaattgag cttggacctg agttcaagaa 180  
ggttgccaat ttccttgctc ggttcaagtc catccccagc atagttgagc ttgacagctt 240  
ga 242

<210> 1432  
<211> 214  
<212> DNA  
<213> Zea mays

<400> 1432

aaggacttct tgccacttcc aagcaaaggg aaatctggga aggatggctg gtatcctcca 60  
ggccatggtg atgtgttccc ctctttgaat aacagtggaa aactcgacat cttattggct 120  
cagggcaagg agtatgtctt cgttgctaac tcagacaact tgggtgctat agtcgacatc 180  
aagatcctga accatctgat caataaccag aatg 214

<210> 1433  
<211> 318  
<212> DNA  
<213> Zea mays

<400> 1433

aggcagacgg cacacacacc acaccacacc tcctcgcttc cactccgctc gtctgacatc 60  
tcgtcccgtc ctttcgtttc gaagcctcgc gagccccgac gatggccacc gccgcggtgt 120  
cggtcgacga gaagctcgac aagcttcgcg ccgaggctgc caagctcgac cagatcagcg 180  
agaacgagaa gtccgggttc atcagcctcg tgtcacgcta cctcagtggg gaagcggaca 240  
gatcgagtgg agcaagatcc agaccctac ggatgaggtg gtggtgccct acgataccgt 300  
cgcgtcgctt cccgaaga 318

<210> 1434  
<211> 234  
<212> DNA  
<213> Zea mays

<400> 1434

gcacgagggg aaatctggga aggatggctg gtatcctcct ggtcatggtg atgtgtttcc 60  
ttctttgaat aacagcggaa aacttgacat cttattggct cagggcaagg agtatgtctt 120  
tggtgcaaac tcagacaact tgggtgctat agtcgacatc aagatcctaa accatctgat 180  
caataaccag aacgagtact gcatggaggt tactccaaag acgctggctg acgt 234

<210> 1435  
<211> 255  
<212> DNA  
<213> Zea mays

<400> 1435

cggtagcttc atctcttacg aaggaagagt tcagcttttg gagattgccc aagtaccta 60

tgagcatgtg aatgagttta aatcaatcga gaagtttaag atattcaaca ctaacaactt 120  
gtgggtgaac cttaaagctg tcaagagact agtagaggct gaggcactta agatggaaat 180  
tattccaaac cccaaggaag ttgatgggtg gaaagtcctt caacttgaaa ctgcagctgg 240  
tgcagctatt cgttt 255

<210> 1436  
<211> 302  
<212> DNA  
<213> Zea mays

<400> 1436

cacaccacac cacacctcct cgcttccact ccgctcgtct gacatctcgt cccgtccttt 60  
cgtttogaag cctcgcgagc cccgacgatg gccaccgccg cgggtgcggt cgacgagaag 120  
ctcgacaagc ttcgcgccga ggctcgccaag ctcgaccaga tcagcgagaa cgagaagtcc 180  
gggttcacat gcctcgtgtc acgctacctc agtgggggaag cggagcagat cgagtggagc 240  
aagatccaga cccctacgga tgaggtggtg gtgccttacg ataccgtcgc gtcgcctccc 300  
ga 302

<210> 1437  
<211> 312  
<212> DNA  
<213> Zea mays

<400> 1437

cacaccacac ctccctcgctt gcactccgct cgtctgacat ctcgctccgt cctttcgttt 60  
cgaagcctcg cgagccccga cgatggccac caccgcggtg tcggtcgacg agaagctcga 120  
taagcttcgc gccgaggtcg ccaagctcga ccagatcagc gagaacgaga agtccgggtt 180  
catcagcctc gtgtcacggt acctcagtgg ggaggcggac agatcgagtg gagcaagatc 240  
cagacccta cggatgaggt ggtggtgccc tacgatacca tcgcgtcgcc tccgaagatc 300  
tcgaggagac ga 312

<210> 1438  
<211> 225  
<212> DNA  
<213> Zea mays

<400> 1438

gcacgagggg aaatctggga aggatggctg gtatcctcct ggtcatgggtg atgtgtttcc 60

ttctttgaat aacagcggaa aacttgacat cttattggct cagggcaagg agtatgtctt 120

tgttgcaaac tcagacaact tgggtgctat agtcgacatc aagatcctaa accatctgat 180

caataaccag aacgagtact gcatggagggt tactccaaag acgct 225

<210> 1439

<211> 230

<212> DNA

<213> Zea mays

<400> 1439

cccacgcgtc cgggctggta tcctcctgggt catgggtgatg tgtttccttc tttgaataac 60

agcggaaaac ttgacatctt attggctcat ggcaaggagt atgtctttgt tgcaaactca 120

gacaacttgg gtgctatagt cgacatcaag atcctaaacc atctgatcaa taaccagaac 180

gagtactgca tggaggttac tccaaagacg ctggctgacg ttaaggggtgg 230

<210> 1440

<211> 309

<212> DNA

<213> Zea mays

<400> 1440

cacacaccac accacacctc ctcgcttcca ctccgctcgt ctgacatctc gtcccgtcct 60

ttcgtttcga agcctcgca gccccgacga tggccaccgc cgcggtgtcg gtcgacgaga 120

agctcgacaa gcttcgcgcc gaggtcgcca agctcgacca gatcagcgag aacgagaagt 180

ccgggttcat cagcctcgtg tcacgctacc tcagtgggga agcggacaga tcgagtggag 240

caagatccag acccctacgg atgaggtggt ggtgcctacg ataccgtcag cgtcgtcctc 300

aagatctcg 309

<210> 1441

<211> 254

<212> DNA

<213> Zea mays

<400> 1441

agtacttcaa cttgaaactg cagctgggtgc agctattcgt ttctttgaca aagcgattgg 60  
 aattaatggt ccccgctcaa gatttctccc ggtgaaggct acatctgatt tattgcttgt 120  
 gcagtctgat ctttacacct tggttgatgg ctttgtcatc cgcaatccat ccagagcgaa 180  
 tccagctaac ccttcgattg agcttggacc tgagttcaag aagggtgcc aattccttgc 240  
 tcggttcaag tcca 254

<210> 1442  
 <211> 307  
 <212> DNA  
 <213> Zea mays

<400> 1442

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 tttcgtttgc aagcctcgcg agccccgacg atggccacca ccgcggtgtc ggtcgacgag 120  
 aagctcgata agcttcgctc cgaggctgcc aagctcgacc agatcagcga gaacgagaag 180  
 tccgggttca tcagcctcgt gtcacggtac ctcaagtggg aggcgagca gatcgagtgg 240  
 agcaagatcc agaccctac ggatgaggtg gtggtgccct acgataccgt cgcgtcgcct 300  
 cccgaaa 307

<210> 1443  
 <211> 203  
 <212> DNA  
 <213> Zea mays

<400> 1443

gaacaagaag tatggatgca atgtcccttt acttctgatg aactctttca acacccatga 60  
 tgacacacag aagattgttg agaagtattc caactccaac atcgaatttc atactttcaa 120  
 tcagagccag taccctcgca ttgttaccga ggacttcttg ccacttccca gcaaagggaa 180  
 atctgggaag gatggctggt atc 203

<210> 1444  
 <211> 287  
 <212> DNA  
 <213> Zea mays

<400> 1444

gagttcaaga aggttgccaa tttccttggt cggttcaagt ccatccccag catagttgag 60  
 cttgacagct tgaaggtttc tggatgatgtc tggtttggtc ctggaattac actcaagggc 120  
 aaggtgacaa ttatcgccaa gcctggagtg aagttggaga ttccagatgg agacgtactt 180  
 gagaacaagg atgtcaatgg ccctgaggat ctttaagcaa tgtttatcat caccagtttt 240  
 cccaaggaca tgtcacagga actgccaagc ctaatcactc ctactga 287

<210> 1445  
 <211> 239  
 <212> DNA  
 <213> Zea mays

<400> 1445

cccacgcgct cgcccacgcg tccgacaact tgtgggtgaa ccttaaagct gtcaagagac 60  
 tagtagaggc tgaggcactt aagatggaaa ttattccaaa cccaaggaa gttgatggtg 120  
 tgaaagtcct tcaacttgaa actgcagctg gtgcagctat tcgtttcttt gacaaagcga 180  
 ttggaattaa tgttccccgc tcaagatttc tcccggtgaa ggctacatct gatttattg 239

<210> 1446  
 <211> 269  
 <212> DNA  
 <213> Zea mays

<400> 1446

cagcgcgcgt acgtgagcgc gcggttgggc tcgagcgacc ttagagctat caagagagtc 60  
 gtagagggct gaggcacttg agcatggaga ttgttccaga cccaaggga gttgatggtg 120  
 tgagagtcct tcaactcgaa accgcagctg gtgcagctat tcggttcttc gacaaagcga 180  
 ttggaattaa tgttccccgc tcaaggtttc tcccagtgaa ggctacatct ggtctgttgc 240  
 ttgtgcagtc tggcttttac agcttggtt 269

<210> 1447  
 <211> 224  
 <212> DNA  
 <213> Zea mays

<400> 1447

cggaccgtgg gccttaaagc tatcaagaga ctgtagagg ctgaggcact taagatggaa 60

attattccaa accccaagga agttgatggt gtgaaagtcc ttcaactcga aaccgcagct 120  
 ggtgcagcta ttcggttctt cgacaaagcg attggaatta atgttccccg ctcaagggtt 180  
 ctcccagtga aggctacatc tgatctgttg cttgtgcagt ctga 224

<210> 1448  
 <211> 273  
 <212> DNA  
 <213> Zea mays

<400> 1448

agaaggttgc caatttcctt gtcggttca agtccatccc cagcatagtt gagcttgaca 60  
 gcttgaaggt ttctggtgat gtctggtttg gctctggaat tacactcaag ggcaagggtga 120  
 caattatcgc caagcctgga gtgaagttgg agattccaga tggagacgta cttgagaaca 180  
 aggatgtcaa tggccctgag gatctttaag caatgtttgt catcaccagt ttttcccaag 240  
 gacatgtcac aggaactgcc aagcctagtc act 273

<210> 1449  
 <211> 293  
 <212> DNA  
 <213> Zea mays

<400> 1449

gaaggttgcc aatttccttg ctcggttcaa gtccatcccc agcatcgtcg agcttgacag 60  
 cttgaagggt tctggtgatg tctggtttgg ttctggaatt acgctcaagg gcaagggtgac 120  
 aatcaccgcc aagtctggag tgaagttgga gattccagac ggagctgtat ttgaaaacaa 180  
 ggatgtcaat ggccctgagg atctttaagc tatgcttgcc gtcaccagtt tttcccaagg 240  
 acatgtcaat aggagctgcc aacccaaatc actcccgtcg agctctacct ttt 293

<210> 1450  
 <211> 311  
 <212> DNA  
 <213> Zea mays

<400> 1450

caccacacct cctcgcttgc actccgctcg tctgacatct cgtcacgtcc tttcgtttcg 60  
 aagcctcgcg agccccgacg atggccacca ccgcggtgtc ggtcgacgag aagctcgata 120



agcttcgcgc cgaggctgcc aagctcgacc agatcagcga gaacgagaag tccgggttca 180  
tcagcctcgt gtcacggtac ctcaagtggg aggcggacag atcgagtgga gcaagatcca 240  
gacccctacg gatgaggtgg tggcgcccta cgataccgtc gcgtacgctc ccgaagatct 300  
cgaggagacg a 311

<210> 1451  
<211> 277  
<212> DNA  
<213> Zea mays

<400> 1451

cacaccacac ctctcgtctt gcactccgct cgtctgacat ctcgccccgt cctttcgttt 60  
cgaagcctcg cgagccccga cgatggccac caccgcggtg tcggtcgacg agaagctcga 120  
taagcttcgc gccgaggtcg ccaagctcga ccagatcagc gagaacgaga agtccgggtt 180  
catcagcctc gtgtcacggt acctcagtgg ggaggcggac agatcgagtg gagcaagatc 240  
cagaccccta cggatgaggt ggtggtgccc tacgata 277

<210> 1452  
<211> 220  
<212> DNA  
<213> Zea mays

<400> 1452

ccaagtacct gatgagcatg tgaatgagtt taaatcaatc gagaagttta agatattcaa 60  
cactaacaac ttgtgggtga accttaaagc tgtcaagaga ctagtagagg ctgaggcact 120  
taagatggaa attattccaa accccaagga agttgatggt gtgaaagtcc ttcaatttga 180  
aactgcagct ggtgcagcta ttggtttctt agacaaagcg 220

<210> 1453  
<211> 199  
<212> DNA  
<213> Zea mays

<400> 1453

gcaagatcca gacccctacg gatgaggtgg tggcgcccta cgataccgtc gcgtcgctc 60  
ccgaagatct cgaggagacg aagaagctgc tggataagct cgttgtgctc aagcttaacg 120

gagggctcgg gacgaccatg ggctgcactg ggcccaagtc tgtcattgaa gtccgcaatg 180  
 ggttcacatt cctggacct 199

<210> 1454  
 <211> 259  
 <212> DNA  
 <213> Zea mays

<400> 1454

aagttgccaa tttccttgct cggttcaagt ccatccccag catagttgag cttgacagct 60  
 tgaaggtttc tggatgatgc tggtttggtc ctggaattac actcaagggc aaggtgacaa 120  
 ttatcgccaa gcctggagtg aagttggaga ttccagatgg agacgtactt gagaacaagg 180  
 atgtcaatgg cctgaggat cttaagcaa tgtttgtcat caccagtttt tcccaaggac 240  
 atgtcacagg aactgccga 259

<210> 1455  
 <211> 294  
 <212> DNA  
 <213> Zea mays

<400> 1455

cacacctcct cgcttgcaact ccgctcgtct gacatctcgt cccgtccttt cgtttcgaag 60  
 cctcgcgagc cccgacgatg gccaccaccg cgggtgctggc cgacgagaag ctcgataagc 120  
 ttcgcgccga ggtcgccaag ctcgaccaga tcagcgagaa cgagaagtcc gggttcatca 180  
 gcctcgtgtc acggtacctc agtggggagg cggacagatc gagtggagca agatccagac 240  
 ccctacggat gacgtggtgg tgccctacga taccgtcgcg tcgcctcccg aaga 294

<210> 1456  
 <211> 307  
 <212> DNA  
 <213> Zea mays

<400> 1456

accacacaac ctcgcttcca caccgctcgt ctgacatata gtcccgtcct ttcgtttcga 60  
 agcctcgcca gcaccgacga tagccaccgc cgcggtgtcg gtcgacgaga agctcgacaa 120  
 gcttcgcgcc gaggtcgcca agctcgacca gatcagcgag aacgagaaga ccgggttcat 180

cagcctcgtg tcacgctacc tcagtaggga agcggagcag atcgagtgga gcaagatcca 240  
gacacctacg gatgaggtgg tggtgcccta cgataccgtc gcgtcgcctc ccgaagatct 300  
cgaggag 307

<210> 1457  
<211> 270  
<212> DNA  
<213> Zea mays

<400> 1457

cggacgctgg gttctgaggc tcgcgaaccc cgacgatggc cgccaccgcg gtgtcggtcg 60  
acgagaagct cgacaagctt cgcgccgagg tcgccaaact caaccagatc agcgagaacg 120  
agaagtccgg gttcatcagc ctctgtgtcac gttacctcag tggggaggcg gacagatcga 180  
gtggagcaag atccagaccc cgaccgatga ggtgggtggg cgttacgata tcctcgcgtc 240  
acctactgaa gatctcgagg agacgaagaa 270

<210> 1458  
<211> 265  
<212> DNA  
<213> Zea mays

<400> 1458

cagccccctcc tcgctcgcac tccgctcgac tgacatctcc tcccgtcctt tcgtttctga 60  
ggctcgcgaa ccccgacgat ggccgccacc gcggtgtcgg tcgacgagaa gctcgacaag 120  
cttcgcgcgg aggtcgccaa actcaaccag atcagcgaga acgagaagtc cgggttcac 180  
agcctcgtgt cacgttacct cagtggggag gcggagcaga tcgagtggag ctagatccag 240  
accccgaccg catgagtggg ggtgc 265

<210> 1459  
<211> 307  
<212> DNA  
<213> Zea mays

<400> 1459

ggacctgggc ggcagacggc acacacacca caccacacct cctcgcttcc actccgctcg 60  
actgacatct cgtcccgtcc ttctgtttcg aagcctcgcg agccccgacg atggccaccg 120

ccgcggtgtc ggtcgacgag aagctcgaca agcttcgcgc cgaggtcgcc aagctcgacc 180  
agatcagcga gaacgagaag tccgggttca tcagcctcgt gtcacgctac ctcaagtggg 240  
aagcggacag atcgagtgga gcaagatcca gaccctacg gatgaggtgg tggcgcccta 300  
cgatacc 307

<210> 1460  
<211> 259  
<212> DNA  
<213> Zea mays  
<400> 1460

cccacgcgtc cgcctcctcg cttgcactcc gtcgtctga catctcgtcc cgtcctttcg 60  
tttcgacgcc tcgcgagccc cgacgatggc caccaccgcg gtgtcggtcg acgagaagct 120  
cgataagctt cgcgccgagg tcgccaagct cgaccagatc agcgagaacg agaagtccgg 180  
gttcatcagc ctctgttcac ggtacctcag tggggaggcg gacagatcga gtggagcaaa 240  
tccagaccct acggatgag 259

<210> 1461  
<211> 314  
<212> DNA  
<213> Zea mays  
<400> 1461

accacaccac acctcctcgc ttgcactccg ctctgtctgac atctcgtccc gtcctttcgt 60  
ttcgaagcct cgcgagcccc gacgatggcc accaccgcgg tgtcggtcga cgagaagctc 120  
gataagcttc gcgccgaggt cgccaagctc gaccagatca gcgagaacga gaagtccggg 180  
ttcatcagcc tcgtgtcacg gtacctcagt ggggaggcgg acagatcgag tggagcaaga 240  
tccagacccc tacggatgag gtggtggtgc cctacgatac cgtcgcgtcg cctcccgaag 300  
atctcgagga gacg 314

<210> 1462  
<211> 238  
<212> DNA  
<213> Zea mays

<220>

<221>        unsure  
 <222>        (1)..(238)  
 <223>        unsure at all n locations

<400>        1462

gttcgtctga catctcctcc cgtcctttcc tttctgaggc tcgcgaaccc cgacaatggc    60  
 cgcaaccgcg gtgtcggtcg acgagaagct cgacaagctt cgcgccgagg tcgccaaact   120  
 cagccagatc agcgagaacg agaaggccgg gttcatcagc ctcgtgtcac gctacctcag   180  
 tggggaggcg ganagatcga gtggagcaag atccagaccc cgaccgatga ggtagtgg    238

<210>        1463  
 <211>        289  
 <212>        DNA  
 <213>        Zea mays

<400>        1463

acacaccaca ccacacctcc tcgcttgac tccgctcgtc tgacatctcg tcccgctcct    60  
 tcgttttcgaa gcctcgcgag caccgacgat ggccaccacc gcggtgtcgg tcgacgagaa   120  
 gctcgataag cttecgcgccg aggtcgccaa gctcgaccag atcagcgaga acgacaactc   180  
 cgggttcacg agcctcgtgt cacggtacct cagtggggag gcggacagat cgagtggagc   240  
 aagatccaga cccctaagga tgagggtgtg gtgccctacg ataccgtcg                289

<210>        1464  
 <211>        299  
 <212>        DNA  
 <213>        Zea mays

<400>        1464

gcagtetaac agcaccctcc cctcgctcgc actcgttctg tctgaactct cctcccgtcc    60  
 tttcctttct gaggtcgcg aaccccgaca atggccgcaa ccgcggtgtc ggtcgacgag   120  
 aagctcgaca agcttcgcgc cgaggtcgcc aaactcagcc agatcagcga gaacgagaag   180  
 gccgggttca tcagcctcgt gtcacgctac ctcagtgggg aggcggacag atcgagtgga   240  
 gcaagatcca gaccccgacc gatgaggtag tgggtgccgta cgataccctc acgtcgcct   299

<210>        1465  
 <211>        257  
 <212>        DNA

<213> Zea mays  
 <400> 1465  
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 aggctcgcgga accccgacga tggccgccac cgcggtgtcg gtcgacgaga agctcgacaa 120  
 gcttcgcgcc gaggtcgcca aactcaacca gatcagcgag aacgagaagt ccgggttcat 180  
 cagcctcgtg tcacgttacc tcagtgggga ggcggacaga tcgagtggag caagatccag 240  
 accccgaccg atgaggt 257

<210> 1466  
 <211> 188  
 <212> DNA  
 <213> Zea mays  
 <400> 1466  
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 cttcgacaaa gcgattggaa ttaatgttcc ccgctcaagg tttctcccag tgaaggctac 120  
 atctgatctg ttgcttgtgc agtctgatct ttacaccttg gttgatggct ttgtcatccg 180  
 caacccat 188

<210> 1467  
 <211> 289  
 <212> DNA  
 <213> Zea mays  
 <400> 1467  
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 gtcctttcgt ttcgaagcct cgcgagcccc gacgatggcc accgccgcgg tgtcggtcga 120  
 cgagaagctc gacaagcttc gcgccgaggt cgccaagctc gaccagatca gcgagaacga 180  
 gaagtccggg ttcattcagcc tcgtgtcacg ctacctcagt ggggaagcgg acagatcgag 240  
 tggagcaaga tccagacccc tacggatgag gtggtggtgc ctacgatac 289

<210> 1468  
 <211> 275  
 <212> DNA  
 <213> Zea mays

<400> 1468

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cccgtccttt cctttcgaag cctcgcgagc cccgacgatg gccaccgccg cgggtgctcgt 120  
cgacgagaag ctcgacaagc ttcgcgccga ggtcgccaag ctcgaccaga tcagcgagaa 180  
cgagacgtcc gggttcatca gcctcgtgtc ccgctacctc agtggggaag cggacagatc 240  
gagtggagca agatccagac ccctacggat gaggt 275

<210> 1469

<211> 315

<212> DNA

<213> Zea mays

<400> 1469

accacaccac acctcctcgc ttgcacaccg ctcgtctgac atctcgtccc gtcctttcgt 60  
ttcgaagcct cgcgagcacc gacgatagcc accaccgcgg tgtcggtcga cgagaagctc 120  
gataagcttc gcgccgaggt cgccaagctc gaccagatca gcgagaacga gaagaccggg 180  
ttcatcagcc tcgtgtcacg gtacctcagt acggaggcgg agcagatcga gtagagcaag 240  
atccagactc ctacggatga ggtggtggta ccctacgata cagtcgcgtc gcctcccga 300  
gatctcgagg agacg 315

<210> 1470

<211> 250

<212> DNA

<213> Zea mays

<400> 1470

aggcacacac accacaccac acctcctcgc ttccacaccg ctcgtctgac atctcgtccc 60  
gtcctttcgt ttcgaagcct cgcgagcccc gacgatggcc accgccgcgg tgtcggtcga 120  
cgagaagctc gacaagcttc gcgccgaggt cgccaagctc gaccagatca gcgagaacga 180  
gaagtccggg ttcatcagcc tcgtgtcacg ctacctcagt ggggaagcgg acagatcgag 240  
tggaagaagat 250

<210> 1471

<211> 255

<212> DNA

<213> Zea mays

<400> 1471

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ctttcgtttc gaagcctcgc gagccccgac gatggccacc gccgcggtgt cggtcgacga 120  
gaagctcgac aagcttcgcg ccgaggtcgc caagctcgac cagatcagcg agaacgagaa 180  
gtccgggttc atcagcctcg tgtcacgcta cctcagtggg gaagcggaca gatcgagtgg 240  
agcaagatcc agacc 255

<210> 1472

<211> 276

<212> DNA

<213> Zea mays

<400> 1472

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cccgtccttt cgtttcgaag cctcgcgagc cccgacgatg gccaccgccg cgggtgctcgt 120  
cgacgagaag ctcgacaagc ttcgcgccga ggctcgccaag ctcgaccaga tcagcgagaa 180  
cgagaagtcc gggttcatca gcctcgtgtc acgctacctc agtggggaag cggacagatc 240  
gagtggagca agatccagac ccctacggat gaggtg 276

<210> 1473

<211> 256

<212> DNA

<213> Zea mays

<400> 1473

ctccccctcc tcgctcgcac tccgctcgtc tgacatctcc tcccgtcctt tcctttctga 60  
ggctcgcgaa ccccgacgat ggccgccacc gcggtgtcgg tcgacgagaa gctcgacaag 120  
cttcgcgccg aggtcgccaa actcaaccag atcagcgaga acgagaagtc cgggttcatc 180  
agcctcgtgt cacgttacct cagtggggag acggagcaga tcgagtgaga ccagatccag 240  
accccgacgg ataagg 256

<210> 1474

<211> 258

<212> DNA



<213> Zea mays  
 <400> 1474

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cggacgcgtg gcgacgcgt gggcggacgc gtgggcggac gcgtgggcag cggaaaactt 60
gacatcttat aggctcaggg caatgagtat gtctttgttg caaactcaga caacttgggt 120
gctatagtcg acatcaagat cctaaaccat ctgatcaata accagaacga gtactgcatg 180
gaggttactc caaagacgct ggctgacgtt aagggtggca ctctcatctc ttacgaagga 240
agagttcagc ttttggag 258

```

<210> 1475  
 <211> 292  
 <212> DNA  
 <213> Zea mays  
 <400> 1475

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cacacacacc acaccacacc tcctcgcttc cactccgctc gtctgacatc tcgtcgctc 60
ctttcgtttc gaagcctcgc gagccccgac gatggccacc gccgcggtgt cggtcgacga 120
gaagctcgac aagctcgcgc cgaggtcgcc aagctcgacc agagtagcga gaacgagaag 180
tcggggttca tcagcctcgt gtcacgctac ctcaagtggg aagcggacag atcgagtgga 240
gcaagatcca gaccctacgg atgaggtggt ggtgcctacg ataccgctgc gt 292

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<210> 1476  
 <211> 308  
 <212> DNA  
 <213> Zea mays  
 <400> 1476

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cactcgagcg aattcggctc gaggtccatc cccagcatag atgagcttga cagctacaac 60
cgttctggtg atgtatggat tggctctgga attacactca agggcaagggt gacaattatc 120
gccaagcctg gagtgaagtt ggagattcca gatggagacg tacttgagaa caaggatgtc 180
aatggccctg aggatcttta agcaatgttt gtcacacca gtttttccca aggacatgtc 240
acaggaactg ccaagcctag tcaactcctac tgagctctat attttgtaat tttcatgtgc 300
attccgat 308

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<210> 1477

<211> 189  
 <212> DNA  
 <213> Zea mays  
  
 <400> 1477  
  
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 acaatcaccg ccaagtctgg agtgaagttg gagattccag acggagctgt atttgaaaac 120  
 aaggatgtca atggccctga ggatctttaa gctatgcttg ccgtcaccag tttttcccaa 180  
 ggacatgtc 189

<210> 1478  
 <211> 158  
 <212> DNA  
 <213> Zea mays  
  
 <400> 1478  
  
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 tagtagaggc tgaggcactt aagatggaaa ttattccaaa cccaaggaa gttgatggtg 120  
 tgaaagtccg tcaacttgaa actgcagctg gtgcagct 158

<210> 1479  
 <211> 245  
 <212> DNA  
 <213> Zea mays  
  
 <400> 1479  
  
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 cgtctgacat ctctctccgt cctttctgtt cgaagcctcg cgagccccga cgatggccac 120  
 cgccgcggtg tcggtcgacg agaagctcga caagcttcgc gccgaggtcg ccaagctcga 180  
 ccagatcagc gagaacgaga agtccgggtt catcagcctc gtgtcacgct acctcagtgg 240  
 ggaag 245

<210> 1480  
 <211> 271  
 <212> DNA  
 <213> Zea mays  
  
 <400> 1480

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 acaatcacccg ccaagtctgg agtgaagttg gagattccag acggaactgt atttgaaaac 120  
 aaggatgtca atggccctga ggatctttaa gctatgcttg ccgtcaccag tttttcccaa 180  
 ggacatgtca ataggagctg ccaacccaaa tcaactccgc tgagctctac cttttgtaat 240  
 tctcgtgccg ttccgcttcc gctgtgaggg t 271

<210> 1481  
 <211> 247  
 <212> DNA  
 <213> Zea mays

<400> 1481

cgcttgaagg tttctggtga tgtctgggtt gggtctggaa ttacgctcaa gggcaagggtg 60  
 acaatcacccg ccaagtctgg agtgaagttg gagattccag acggagctgt atttgaaaac 120  
 aaggatgtca atggccctga ggatctttaa gctatgcttg ccgtcaccag tttttcccaa 180  
 ggacatgtca ataggagctg ccaacccaaa tcaactccgc tgagctctac cttttgtaat 240  
 tctcgtg 247

<210> 1482  
 <211> 225  
 <212> DNA  
 <213> Zea mays

<400> 1482

acacaccaca ccacacctcc tcgcttccac tccgctcgtc tgacatctcg tcccgtcctt 60  
 tcgtttcgaa gcctcgcgag ccccgacgat ggccaccgcc gcggtgtcgg tcgacgagaa 120  
 gctcgacaag cttecgcccg aggtcgccaa gctcgaccag atcagcgaga acgagaagtc 180  
 cgggttcacg agcctcgtgt caccgtacct cagtggggaa gcgga 225

<210> 1483  
 <211> 256  
 <212> DNA  
 <213> Zea mays

<400> 1483

cggcacacac accacaccac acctcctcgc ttccactccg ctcgtctgac atctcgtccc 60

gtccttttctt ttcgaagcct cgcgagcccc gacgatggcc accgccgcgg tgtcggtcga 120  
cgagaagctc gacaagcacc cgccgaggtc gccaaagctcg accagatcag cgagaacgag 180  
aagtccgggt tcatcagcct cgtgtcacgc tacctcagtg gggaagcgga cagatcgagt 240  
ggagcaagat ccgacc 256

<210> 1484  
<211> 237  
<212> DNA  
<213> Zea mays

<400> 1484

gcgggcagtc taacagcacc cctcctcgc tcgcactccg ttcgtctgac atctcctccc 60  
gtccttttctt ttctgaggct cgcgaaacccc gacaatggcc gcaaccgcgg tgtcggtcga 120  
cgagaagctc gacaagcttc gcgccgaggt cgccaaactc agccagatca gcgagaacga 180  
gaaggccggg ttcacacagc tcgtgtcacg ctacctcagt gggggagcgg gacagat 237

<210> 1485  
<211> 223  
<212> DNA  
<213> Zea mays

<400> 1485

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tcgcgagccc cgacgatggc caccaccgcg gtgtcggctc acgagaagct cgataagctt 120  
cgcgcccagg tcgccaagct cgaccagatc agcgagaacg agaagtccgg gttcatcagc 180  
ctcgtgtcac ggtacctcag tggggaggcg gacagatcga gtg 223

<210> 1486  
<211> 141  
<212> DNA  
<213> Zea mays

<400> 1486

agctgaggca cttaaagatg aaattattcc aaacccaagg aagttgatgg tgtgaaagtc 60  
cttcaacttg aaactgcagc tgggtgcagct attcgtttct ttgacaaagc gattggaatt 120  
aatgttcccc gctcaagatt t 141

<210> 1487  
 <211> 257  
 <212> DNA  
 <213> Zea mays  
  
 <400> 1487  
  
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 gtccctttcgt ttcgaagcct cgcgagcccc gacgatggcc accgccgcgg tgctcggtcga 120  
 cgagaagctc gacaagcttc gcgccgaggt cgccaagctc gaccagatca gcgagaacga 180  
 gaagtccggg ttcattcagcc tcgtgtcacg ctacctcagt ggggaagcgg acagatcgag 240  
 tggagcaaga tccagac 257

<210> 1488  
 <211> 143  
 <212> DNA  
 <213> Zea mays  
  
 <400> 1488  
  
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 gcctggagtg aagttggaga ttccagatgg agacgtactt gagaacaagg atgtcaatgg 120  
 ccctgaggat ctttaagcaa tgt 143

<210> 1489  
 <211> 200  
 <212> DNA  
 <213> Zea mays  
  
 <400> 1489  
  
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 tcgaagcctc gcgagccccg acgatggcca ccgccgcggg gtcggtcgac gagaagctcg 120  
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 tcattcagcct cgtgtcacgc 200

<210> 1490  
 <211> 272  
 <212> DNA  
 <213> Zea mays

<400> 1490

agacggcaca cacaccacac cacacctect cgcttccact ccgctcgtct gatctctcgt 60

cccgtccttt cgtttcgaag cctcgcgagc cccgacgatg gccaccgccg cgggtgtcgat 120

cgacgagaag ctcgacaagc ttcgcgccga ggctcgccaag ctcgaccaga tcagcgagaa 180

cgagaagtcc gggttcatca gcctcgtgtc acgctacctc agtggggaag cggacagatc 240

gagtggagca agatccagac ccctacggat ga 272

<210> 1491

<211> 149

<212> DNA

<213> Zea mays

<400> 1491

ctttgttgca aactcagaca acttgggtgc tatagtcgac aacaagatcc taaaccatct 60

gatcaataac cagaacgagt attgcatgga ggttactcca aagacgctgg ctgacgttaa 120

gggtggcact ctcattctctt acgaaggaa 149

<210> 1492

<211> 189

<212> DNA

<213> Zea mays

<400> 1492

atcgcgctct ttcctttctg aggctcgca accccgacaa tggccgcaac cgcgggtgtcg 60

gtcgcagaga agctcgacaa gcttcgcgcc gaggtcgcca aactcagcca gatcagcgag 120

aacgagaagg ccgggttcat cagcctcgtg tcacgctacc tcagtgggga ggcggacaga 180

tcgagtgga 189

<210> 1493

<211> 295

<212> DNA

<213> Zea mays

<400> 1493

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tttcgaagcc tcgcgagccc cgacgattgc caccaccgcg gtgtcggtcg acgagaagct 120

cgatgagctt cgcgccgagg tcgccaagct cgaccagatc agcgagaacg agaagtccgg 180  
gttcatcagc ctcgtgtcac ggtacctcag tggggaggcg gacagatcga gtggagcaag 240  
atccagaccc ctacggatga ggtggtggtg cgctacgata ccgtcgcgtc gcctc 295

<210> 1494  
<211> 253  
<212> DNA  
<213> Zea mays

<400> 1494

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gaagttggag attccagatg gagacgtact tgagaacaag gatgtcaatg gccctgagga 120  
tctttaagca atgtttatca tcaccagttt tccaaggac atgtcacagg aactgccaaag 180  
cctaatact cctactgagc tctatatattt gtaattttca tgtgcattcc gattccgctg 240  
tgagggtcat gtg 253

<210> 1495  
<211> 286  
<212> DNA  
<213> Zea mays

<400> 1495

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accacacctc ctcgcttcca ctcacgctcg tctaccatct cgtcccgtcc tttcgtttcg 120  
aagcctcgcg agccccgacg atggccaccg ccgcggtgtc ggtcgacgag aagctcgaca 180  
agcttcgcbc cgaggctgcc aagctcgacc agatcagcga gaacgagaag tccgggttca 240  
tcagcctcgt gtcacgctac ctcagtgggg aagcggacag atcgag 286

<210> 1496  
<211> 116  
<212> DNA  
<213> Zea mays

<400> 1496

gtggtgcctt acgataccgt cgcgtgcct cccgaagatc tcgaggagac gaagaagctg 60  
ctggataagc tcgttgtgct caagcttaac ggagggctcc ggaacgacca tgggct 116

<210> 1497  
 <211> 237  
 <212> DNA  
 <213> Zea mays

<400> 1497

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 tcgtcccgtc ctttcgtttc gaagcctcgc gagccccgac gatggccacc gccgcggtgt 120  
 cggctcgacga gaagctcgac aagcttcgcg ccgaggctgc caagctcgac cagatcagcg 180  
 agaacgagaa gtccgggttc atcagcctcg tgtcacgata tctcagtgga aacgcgg 237

<210> 1498  
 <211> 150  
 <212> DNA  
 <213> Zea mays

<400> 1498

tttcgaagcc tcgcgagcac cgacgatagc caccaacgcg gtgtcggctc acgagaagct 60  
 cgataagctt cgcgccgagg tcgccaagct cgaccagatc agcgagaacg agaatttcgg 120  
 gttcatcagc ctcgtgtcac ggtacctcag 150

<210> 1499  
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 <212> DNA  
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<400> 1499

ctggttttggc tctggaatta cactcaatgg gcaagtgaca attatcgcca agcctggagt 60  
 gaagttggag attccagatg gagacgtact tgagaacaag gatgtcaatg gccctg 116

<210> 1500  
 <211> 99  
 <212> DNA  
 <213> Zea mays

<400> 1500

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 cgagaacgag aagtccgggt tcatcagcct cgtgtcacg 99



<210> 1501  
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 <213> Zea mays  
  
 <400> 1501  
  
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 gagattccag atggagacgt acttgagaac aaggatgtca atggccctga ggatctttaa 180  
 gcaatgtttg tcatcaccag tttttcccaa ggacatgtca caggaactgc caagcctagt 240  
 cactcctact gagatctata ttttgtaatt ttcatgtgca ttc 283

<210> 1502  
 <211> 343  
 <212> DNA  
 <213> Zea mays  
  
 <400> 1502  
  
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 agtgaccatc actgcaaaac ctggcgtcaa gctagaaatc ccagacggag cagtgattgg 180  
 gaataaggat atcagtggcc ctgaggacct ttagataaga atcagcgaat cagcaaggag 240  
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 ttccatgata ttatggagaa tattaattgc cagtataatc cag 343

<210> 1503  
 <211> 338  
 <212> DNA  
 <213> Zea mays  
  
 <400> 1503  
  
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 ggggtgatgtt tggttcgggt ctggaattgc actgaatggg aaagcgtcca tcaactgcaaa 120  
 acctgtcgtc aagctataaa ttcaatacgg atcactgatt ggtgaataat gatctcagtc 180  
 gccttgagga cctttagata agaataagcg tatcaccacg tacgcttact tacccaagtg 240

acggatcatc gctcgtggac tctcctgaat atccagacaa gtccgatgat actacggacc 300  
 atatcaactg ccagcatatt gcaatcattg tacatgta 338

<210> 1504  
 <211> 320  
 <212> DNA  
 <213> Zea mays

<400> 1504

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 gaacttggtc ctgagttcaa gaaggttggg agcttccttg gtcgcttcaa gtcgatacct 180  
 agcattgttg agcttgacag cttgaagggt tccgggtgatg tttgggtcgg ttctggaatt 240  
 gtactgaagg ggaaagtgac catcactgca aaacctggcg tcaagctaga aatcccagac 300  
 ggagcagtga ttgggaataa 320

<210> 1505  
 <211> 425  
 <212> DNA  
 <213> Zea mays

<400> 1505

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 ttcatacttt caatcagagc cagtatcctc gcattgttac cgaggacttc ttgccacttc 180  
 caagcaaagg gaaatctggg aaggatggct ggtatcctcc aggccatggg gatgtgttcc 240  
 cctctttgaa taacagtgga aaactcgaca tcttattggc tcaaggcaag gagtatggtc 300  
 ttcgtgctaa ctgagacaac ttgggtgcta tagtcgacat caagatcctg aaccatctga 360  
 tcaataacca gaatgaatac tgcattggag ttactccaaa aacattggct gatgttaaag 420  
 gcggt 425

<210> 1506  
 <211> 414  
 <212> DNA  
 <213> Zea mays

<400> 1506

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ttccaaaccc caaggaagtt gatggtgtga aagtccttca actcgaaacc gcagctggtg 120  
cagctattcg gttcttcgac aaagcgattg gaattaatgt tccccgctca aggtttctcc 180  
cagtgaaggc tacatctgat ctggtgcttg tgcagtctga tctttacacc ttggttgatg 240  
gctttgtcat ccgcaacca tccagagcga atccagctaa cccttcaatt gagcttggac 300  
ctgagttcaa gaaggttgcc aatttccttg ctcggttcaa gtccatcccc agcatagttg 360  
agcttgacag cttgaaggtt tctggtgatg tctggtttgg ctctggaatt acac 414

<210> 1507

<211> 441

<212> DNA

<213> Zea mays

<400> 1507

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attggaatta atgttccccg ctcaagattt ctcccgggtga aggctacatc tgatttattg 180  
cttgtgcagt ctgatcttta caccttggtt gatggctttg tcatccgcaa tccatccaga 240  
gcgaatccag ctaacccttc gattgagctt ggacctgagt tcaagaagg tgcgaatttc 300  
cttgctcggt tcaagtccat cccagcatc gtcgagcttg acagcttgaa ggtttctggt 360  
gatgtctggt ttggttctgg aattacgctc aagggcaagg tgacaatcac cgccaagtct 420  
ggagtgaagt tggaggttcc a 441

<210> 1508

<211> 406

<212> DNA

<213> Zea mays

<400> 1508

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aaccttaaag ctatcaagag actcgtagag gctgaggcac ttaagatgga aattattcca 180

aacccaagg aagttgatgg tgtgaaagtc cttcaactcg aaaccgcagc tgggtgcagct 240  
 attcggttct tcgacaaagc gattggaatt aatgttcccc gctcaagggt tctcccagtg 300  
 aaggctacat ctgatctggt gcttgtgcag tctgatcttt acaccttggt tgatggcttt 360  
 gtcacccgca acccatccag agcgaatcca gctaaccctt caattg 406

<210> 1509  
 <211> 412  
 <212> DNA  
 <213> Zea mays

<400> 1509

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 cccaagtacc cgatgagcat gtgaatgaat ttaaatcaat cgagaagttt aagatattca 120  
 acactaaciaa cttgtgggtg aaccttaaag ctatcaagag actcgtagag gctgaggcac 180  
 ttaagatgga aattattcca aacccaagg aagttgatgg tgtgaaagtc cttcaactcg 240  
 aaaccgcagc tgggtgcagct attcggttct tcgacaaagc gattggaatt aatgttcccc 300  
 gctcaagggt tctcccagtg aaggctacat ctgatctggt gcttgtgcag tctgatcttt 360  
 acaccttggt tgatggcttt gtcacccgca acccatccag agcgaatcca gc 412

<210> 1510  
 <211> 436  
 <212> DNA  
 <213> Zea mays

<400> 1510

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 aggagactaa gaagctgctg gataagctcg ttgtgctcaa gcttaactga gggctcggga 180  
 cgaccatggg ctgcactggg cccaagtctg tcattgaagt ccgcaatggg ttcacattcc 240  
 ttgaccttat tgtgattcaa attgagtccc tgaacaagaa gtatggatgc aatgtccctt 300  
 tacttctgat gaactctttc aacacccatg atgacacaca gaagattggt gagaagtatt 360  
 ccaactcaa catcgaaatt catactttca atcatagcca gtatcctctc attgttaccg 420  
 aggacttttt gccact 436

<210> 1511  
 <211> 407  
 <212> DNA  
 <213> Zea mays

<220>  
 <221> unsure  
 <222> (1)..(407)  
 <223> unsure at all n locations

<400> 1511

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gcaagatcca gaccctacg gatgaggtgg tggcgcccta cgataccgtc gcgtcgccctc 120
ccgaagatct cgaggagacg aagaagctgc tggataagct cgttgtgctc aagcttaacg 180
gagggctcgg gacgaccatg ggctgcactg ggcccaagtc tgtcattgaa gtccgcaatg 240
ggttcacatt ccttgacctt attgtgattc aaattgagtc cctgaacaag aagtatggat 300
gcaatgtcnc tttacttctg atgaactctt tcaacacca tgatgacaca cagaagattg 360
ttgagaagta ttccaactcc aacatcgaaa ttcatacttt caatcag 407

```

<210> 1512  
 <211> 440  
 <212> DNA  
 <213> Zea mays

<400> 1512

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gacatcttat tggctcaggg caaggagtat gtcttcggtg ctaactcaga caacttgggt 120
gctatagtcg acatcaagat cctgaaccat ctgatcaata accagaatga atactgcatg 180
gaggttactc caaaaacatt ggctgatgtt aaaggcggtg ctctcatctc ttacgaagga 240
agagttcagc ttttgagat tgcccaagta cctgatgagc atgtgaatga gtttaaataca 300
atcgagaagt ttaagatatt caacactaac aacttgtggg tgaaccttaa agctgtcaag 360
agactagtag aggctgaggc acttaagatg gaaattatctt caaaccccaa ggaagttgat 420
ggtgtgaaag tccttcaact 440

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<210> 1513  
 <211> 445

<212> DNA  
 <213> Zea mays  
  
 <400> 1513  
  
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 tgttaccgag gacttcttgc cacttcccag caaagggaaa tctgggaagg atggctggta 120  
 tcctcctgggt catgggtgatg tgtttccctc tttgaataac agcggaaaac ttgacatctt 180  
 attggctcag ggcaaggagt atgtctttgt tgcaaactca gacaacttgg gtgctatagt 240  
 cgacatcaag atcctaaacc atctgatcaa taaccagaac gagtactgca tggagggttac 300  
 tccaaagacg ctggctgacg ttaaggggtg cactctcatc tcttacgaag gaagagttca 360  
 gcttttggag attgcccaag tatccgatga gcatgtgaat gaatttaaata caatcgagaa 420  
 gtttaagata ttcaacacta acaac 445

<210> 1514  
 <211> 477  
 <212> DNA  
 <213> Zea mays  
  
 <220>  
 <221> unsure  
 <222> (1)..(477)  
 <223> unsure at all n locations

<400> 1514  
  
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 gtcacccgca acccatccag agcgaatcca gctaaccctt caattgagct tggacctgag 180  
 ttcaagaagg ttgccaattt ccttggtcgg ttcaagtcca tccccagcat agttgagctt 240  
 gacagcttga aggtttctgg tgatgtctgg tttggctctg gaattacact caagggcaag 300  
 gtgacaatta tcgccaagcc tggagtgaag ttggagattc cagatggaga cgtacttgag 360  
 aacaaggatg tcaatggccc tgaggatctt taagcaatgt ttatcatcac cagttttccc 420  
 aaggacatgt cacaggaact gccaaagccta atcactncta ctgagctcta tatttttg 477

<210> 1515  
 <211> 450  
 <212> DNA

<213> Zea mays  
 <400> 1515  
 ggaaattatt ccaaacccca aggaagttgt tgggtgtgaaa gtccttcaac ttgaaactgc 60  
 agctgggtgca gctattcggt tctttgacaa agcgattgga attaattgttc cccgctcaag 120  
 atttctcccg gtgaaggcta catctgattt attgcttgtg cagtctgata tttacacctt 180  
 ggttgatggc tttgtcatcc gcaatccatc cagagcgaat ccagctaacc cttcgattga 240  
 gcttggacct gagttcaaga aggttgccaa tttccttgct cggttcaagt ccatccccag 300  
 catcgctgag ctgacagct tgaaggtttc tgggtgatgtc tggtttggtt ctggaattac 360  
 gctcaagggc aaggtgacaa tcaccgcaa gtctggagtg aagttggagg ttccagatgg 420  
 agcttgattt gaaaacaagg atgtcaatgg 450

<210> 1516  
 <211> 438  
 <212> DNA  
 <213> Zea mays  
 <400> 1516  
 cacacctcct cgcttcact ccgctcgtct gacatctcgt cccgtccttt cgtttcgaag 60  
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 ttcgcgccga ggtcgccaag ctcgaccaga tcagcgagaa cgagaagtcc gggttcatca 180  
 gcctcgtgtc acgctacctc agtggggaag cggagcagat cgagtggagc aagatccaga 240  
 cccctacgga tgaggtggtg gtgccctacg ataccgtcgc gtcgcctccc gaagatctcg 300  
 aggagacgaa gaagctgctg gataagctcg ttgtgctcaa gcttaacgga gggctcggga 360  
 cgaccatggg ctgcactggg cccaagtctg tcattgaagt ccgcaatggg ttcacattcc 420  
 ttgaccttat tgtgattc 438

<210> 1517  
 <211> 464  
 <212> DNA  
 <213> Zea mays  
 <220>  
 <221> unsure  
 <222> (1)..(464)  
 <223> unsure at all n locations

<400> 1517

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gatctttaca ccttggttga tggctttgtc atccgcaacc catccagagc gaatccagct 120
aacccttcaa ttgagcttgg acctgagttc aagaagggtg ccaatttcct tggtcggttc 180
aagtccatcc ccagcatagt tgagcttgac agcttgaagg tttctggtga tgtctggttt 240
ggctctggaa ttacactcaa gggcaagggtg acaattatcg ccaagcctgg agtgaagttg 300
gagattccag atggagacgt acttgagaac aaggatgtca atggccctga ggatctttaa 360
gcaatgttta tcatcaccag ttttcccaag gacatgtcac aggaactgcc aagcctaata 420
actcctactg agctctatat tntgtaattt tcatgtgcat tccg 464
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<210> 1518

<211> 421

<212> DNA

<213> Zea mays

<400> 1518

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acccacgcgt ccgctgacat ctcggtccgt cctttcgttt cgaagcctcg cgagccccga 60
cgatggccac cgccgcggtg tcggtcgacg agaagctcga caagcttcgc gccgaggctcg 120
ccaagctcga ccagatcagc gagaacgaga agtccggggt catcagcctc gtgtcacgct 180
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tgggtggtgcc ctacgatacc gtcgcgtcgc ctcccgaaga tctcgaggag acgaagaagc 300
tgctggataa gtcggttggt ctcaagctta acggaggggt cgggacgacc atgggctgca 360
ctgggcccga gtctgtcatt gaagtccgca atgggttcac attccttgac cttattgtga 420
t 421
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<210> 1519

<211> 443

<212> DNA

<213> Zea mays

<400> 1519

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cccacgcgtc cgccacacca cacctcctcg cttccactcc gctcgtctga catctcgtcc 60
ggtcctttcg tttcgaagcc tcgcgagccc cgacgatggc caccgccgcg gtgtcggtcg 120
```



acgagaagct cgacaagctt cgcgccgagg tcgccaagct cgaccagatc agcgagaacg 180  
agaagtccgg gttcatcagc ctcgtgtcac gctacctcag tggggaagcg gagcagatcg 240  
agtggagcaa gatccagacc cctacggatg aggtggtggt gccctacgat accgtcgcgt 300  
cgctccccga agatctcgag gagacgaaga agctgctgga taagctcggt gtgctcaagc 360  
ttaacggagg gctcgggacg accatggtct gcactgggcc caagtctgtc attgaagtcc 420  
gcaatggggtt cacattcctt gac 443

<210> 1520  
<211> 319  
<212> DNA  
<213> Zea mays

<400> 1520

atccttccgg taaacctcgc catctaattg gctcatggca tggagtatgt cttcgttgc 60  
aactcggaca gcttggttgc tatagtcgac atcaagatcc tgaaccatct gatcaataac 120  
cagaatgaat actgcatgga ggttactcca aaaacattgg ctgatgttaa aggcggtact 180  
ctcatctctt acgaaggaag agttcagctt ttggagattg cccaagtacc tgatgagcat 240  
gtgaatgagt ttaaataaat cgagaagttt aagatattca acactaaciaa cttgtgggtg 300  
aacctttaag ctgtcaaga 319

<210> 1521  
<211> 394  
<212> DNA  
<213> Zea mays

<400> 1521

cccacgcgtc cgcccacgcg tccgcccacg cgtccgcgga cgcgtgggtt tcaatcagag 60  
ccagtatcct cgcattgtta ccgaggactt cttgccactt cccagcaaag ggaaatctgg 120  
gaaggatggc tggatcctc ctggtcatgg tgatgtgttt ccctctttga ataacagcgg 180  
aaaacttgac atcttattgg ctcagggcaa agagtatgtc tttgttgcaa actcagacaa 240  
cttgggtgct atagtcgaca tcaagatcct aaaccatctg atcaataacc agaacgagta 300  
ctgcatggag gttactccaa agacgctggc tgacgttaag ggtggcactc tcatctctta 360  
cgaaggaaga gttcagcttt tggagattgc ccaa 394

<210> 1522  
 <211> 400  
 <212> DNA  
 <213> Zea mays

<400> 1522

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cccacgcgtc cggcccaagt acctgatgag catgtgaatg agtttaaata aatcgagaag 60
ttaaagatat tcaacactaa caacttgtgg gtgaacctta aagctgtcaa gagactagta 120
gaggctgagg cacttaagat ggaaattatt ccaaacccca aggaagttga tgggtgtgaaa 180
gtccttcaac ttgaaactgc agctggtgca gctattcggt tctttgacaa agcgattgga 240
attaatgttc cccgctcaag atttctcccg gtgaaggcta catctgattt attgcttgtg 300
cagtctgata ttacacctt ggttgatggc ttgtcatcc gcaatccatc cagagcgaat 360
ccagctaacc cttcgattga gcttggacct gagttcaaga 400
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<210> 1523  
 <211> 419  
 <212> DNA  
 <213> Zea mays

<400> 1523

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cacctcctcg cttgcactcc gctcgtctga catctcgtcc cgtcctttcg tttcgaaggg 60
tcgggagccc cgacgatggc caccaccgcg gtgtcggctc acgagaagct cgataagctt 120
cgcgccgagg tcgccaagct cgaccagatc agcgagaacg agaagtccgg gttcatcagc 180
ctcgtgtcac ggtacctcag tggggaggcg gagcagatcg agtggagcaa gatccagacc 240
cctacggatg aagtgggtgg gccctacgat accgtcgcgt cgcctcccgga agatctcgag 300
gagacgaaga agctgctgga taagctcggt gtgtcaagc ttaacggagg gctcgggacg 360
accatgggct gcactgggcc caagtctgtc attgaagtcc gcaatggggt cacattcct 419
```

<210> 1524  
 <211> 408  
 <212> DNA  
 <213> Zea mays

<400> 1524

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tgttacgcgt tcaaggcatc tcccagcgaa ggctacatct gatctgctgc ttgtgcaggc 60
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tgatctttac accgtggttg atggctttgt catccgcaac ccatgcagag cgaatccagc 120  
 taacccttca attgagcttg gacctgagtt caagaagggt gccaatctac ttggtcggtt 180  
 caagtccatc cccagcatag ttgagcttga cagcttgaag gtttctggtg atgtctggtt 240  
 tggctctgga attacactca agggcaagggt gacaattatc gccaaacctg tagtgaagtt 300  
 ggagattcca gatggagacg tacttgagaa caaggatgtc aatggtcctg aggatctata 360  
 agcaatgggtt atcatcacca ggttttccaa ggacatgtta cagggact 408

<210> 1525  
 <211> 358  
 <212> DNA  
 <213> Zea mays

<400> 1525

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 acatcttatt ggctcagggc aaggagtatg tctttgttgc aaactcagac aacttgggtg 180  
 ctatagtcga catcaagatc ctaaaccatc tgatcaataa ccagaacgag tactgcatgg 240  
 aggttactcc aaagacgctg gctgacgtta aggggtggcac tctcatctct tacgaaggaa 300  
 gagttcagct tttggagatt gcccaaagtc cccgatgaag catgtgaatg gaattaaa 358

<210> 1526  
 <211> 349  
 <212> DNA  
 <213> Zea mays

<400> 1526

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 gagaaggccg ggttcatcag cctcgtgtca cgctacctca gtggggaggc ggagcagatc 180  
 gagtggagca agatccagac cccgaccgat gaggtagtgg tgccgtacga taccctcacg 240  
 tcgcctcctg aagatctcga ggagacgaag aagctgctgg acaagctcgt tgtgctcaag 300  
 ctcaacggag ggctcgggac gaccatgggc tgcaccggac ccaagtctg 349

<210> 1527  
 <211> 439  
 <212> DNA  
 <213> Zea mays  
  
 <220>  
 <221> unsure  
 <222> (1)..(439)  
 <223> unsure at all n locations  
  
 <400> 1527

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ttgtcatccg caacccatcc agagcgaatc cagctaaccc ttcaattgag cttggacctg 120
agttcaagaa ggttgccaat ttccttggtc ggttcaagtc catccccagc atagttgagc 180
ttgacagctt gaaggtttct ggtgatgtct ggtttggctc tggaattaca ctcaagggca 240
aggtgacaat tatcgtcaag cctggagtga agttggagat tccagatgga gacgtacttg 300
agaacaagga tgtcaatggc cctgaggatc ttaagcaat gtgtatcatc accagttgtc 360
ccaaggacat gtcacatgaa ctgtcaagcc taatcactcc tactgagctc tatantttgt 420
aatgttcatg tgcattccg 439
  
```

<210> 1528  
 <211> 373  
 <212> DNA  
 <213> Zea mays  
  
 <400> 1528

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aattaatggt ccccgctcaa gatttctccc ggtgaaggct acatctgatt tattgcttgt 60
gcagtctgat ctttacacct tggttgatgg ctttgtcatc cgcaatccat ccagagcgaa 120
tccagctaac ccttcgattg agcttggaac tgagttcaag aaggttgcca atttccttgc 180
tcggttcaag tccatcccca gcatcgtcga gcttgacagc ttgaagggtt ctgggtgatgt 240
ctggtttggt tctggaatta cgctcaaggg caaggtgaca atcacctca agtctggagt 300
gaagttggag gttccagatg gagctgtatt tgaaaacaag gatgtcaatg gccctgagga 360
tccttaagct atg 373
  
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<210> 1529  
 <211> 392  
 <212> DNA

<213> Zea mays  
 <400> 1529

caaattcata ctttcaatca gagccagtat cctcg cattg ttaccgagga cttcttgcca 60  
 cttcccagca aagggaatc tgggaaggat ggctggatc ctctgggtca tggatgatg 120  
 tttccctctt tgaataacag cggaaaactt gacatcttat tggctcaggg caaagagtat 180  
 gtctttgttg caaactcaga caacttgggt gctatagtcg acatcaagat cctaaaccat 240  
 ctgatcaata accagaacga gtactgcatg gaagttactc caaagacgct ggctgacgtt 300  
 aaaggtggca ctctcatctc ttacgaaagg aagagttcag ctttttggag attgcccag 360  
 taccgatga gcatgtgaat gaatttaa ca 392

<210> 1530  
 <211> 407  
 <212> DNA  
 <213> Zea mays  
 <400> 1530

cacaccacac cacacctgct cgcttccact ccgctcgtct gacatctcgt cccgctcgtt 60  
 cgtttcgaag cctcgcgagc cccgacgatg gccaccgccg cgggtgcggt cgacgagaag 120  
 ctcgacaagc ttcgcgccga ggtcgccaag ctcgaccaga tcagcgagaa cgagaagtcc 180  
 gggttcatca gcctcgtgtc acgctacctc agtggggaag cggagcagat cgagtggagc 240  
 aagatccaga cccctacgga tgaggtgggt gtgccctacg ataccgtcgc gtagcctccc 300  
 gaagatctcg aggagacgaa gaagctgctg gataagctcg ttgtgctcaa gcttaacgga 360  
 gggctcggga cgaccatggg ctgcactggg cccaagtatg tcattga 407

<210> 1531  
 <211> 407  
 <212> DNA  
 <213> Zea mays  
 <400> 1531

agcttttggga gattgccc aa gtacccgatg agcatgtatg ttgctgttct tgtgtggctt 60  
 aagtttcata atctgttcca tgatttcacc accagccttt ttagtaaga gctacacaac 120  
 cttttcta at tttcttgat ctctatccag gtgaatgaat ttaaataat cgagaagttt 180

aagatattca acactaacia cttgtgggtg aaccttaaag ctatcaagag actcgtagag 240  
gctgaggcac ttaagatgga aattattcca aaccccaagg aagttgatgg tgtgaaagtc 300  
cttcaactcg aaaccgcagc tgggtgcagct attcggttct tcgacaaagc gattggaatt 360  
aatgttcccc gctcaaagtt tctcccagtg aaggctacat ctgatct 407

<210> 1532  
<211> 460  
<212> DNA  
<213> Zea mays

<400> 1532

gtagctgcag tgcggtcgta gatcacgggt ccacgcacgc gtccgaatgg cattgtcatc 60  
cgcaacccat ccagagcgaa tccagctaac ccttcaattg agcttgacc tgagttcaag 120  
aaggttgcca atttccttgc tcggttcaag tccatcccca gcatagttga gcttgacagc 180  
ttgaaggttt ctggtgatgt ctggtttggc tctggaatta cactcaaggg caatgtgaca 240  
attatcgcca agcctggagt gaagttggag attccagatg gagacgtact tgagaacaag 300  
gatgtcaatg ggctgagga tctttaagca atgtctgtca tcaccagttt ttcccaagga 360  
catgtcacag gaactgccga gcctaatac tctactgag ctctatattt ttgtaatttt 420  
catgtgcatt ccgattccgc tgcgagggtc atgtgagccc 460

<210> 1533  
<211> 257  
<212> DNA  
<213> Zea mays

<400> 1533

gtttaagata ttcaacacta acaacttgtg ggtgaacott aaagctatca agagactcgt 60  
agaggctgag gcacttaaga tggaaattat tccaaacccc aaggaagttg atggtgtgaa 120  
agtccttcaa ctcgaaaccg cagctgggtg agctattcgg ttcttcgaca aagcgattgg 180  
aattaatggt ccccgctcaa gggtttctccc aatgaaggct acatctgac tgatgcttgt 240  
gcagtctgat ctttaca 257

<210> 1534  
<211> 378  
<212> DNA

<213> Zea mays  
 <400> 1534  
 aacccacgcg tccgcccacg cgtccgcaca cacaccacac cacacctcct cgctttccact 60  
 ccgctcgtct gacatctcgt cccgtccttt cgtttcgaag cctcgcgagc cccgacgatg 120  
 gccaccgccc cggtgtcggt cgacgagaag ctgcacaagc ttcgcgccga ggtcgccaag 180  
 ctgcaccaga tcaggcgagt gccccctcc tctccgcact agatctcgcc gcccgatcgc 240  
 ttcgcctccc atttttgctg atttctgagt gtgtttttcc gcgcagcgag aacgagaagt 300  
 ccgggttcat cagcctcgtg tcacgctacc tcagtgggga agcggagcag atcgagtgga 360  
 gcaagatcca gacccta 378

<210> 1535  
 <211> 60  
 <212> DNA  
 <213> Zea mays

<400> 1535  
 aatggaatta aaggtccccg gttaagaatt cttcccgatga atgcttcctt cgaattaatg 60

<210> 1536  
 <211> 342  
 <212> DNA  
 <213> Zea mays

<400> 1536  
 aagaattaca ctcaagggca aggtgacaat tatcgccaag cctggagtga agttggagat 60  
 tccagatgga gacgtacttg agaacaagga tgtcaatggc cctgaggatc ttttaagcaat 120  
 gtttgtcatc accagttttt cccaaggaca tgtcacagga actgccaagc ctagtcactc 180  
 ctactgagct ctatatatttg taattttcat gtgcattccg attccgctgt gaggggtcatg 240  
 ttaaccccgc tagaaaataa ttgtaatctt ctttgetgog tctgtacttc tgtttttggt 300  
 cgccaggacg tatattttta ctgaaatgat actccgaaga gc 342

<210> 1537  
 <211> 443  
 <212> DNA  
 <213> Zea mays

<400> 1537

ctcaagggca aggtgacaat tatcgccaag cctggagtga agttggagat tccagatgga 60

gacgtacttg agaacaagga tgtcaatggc cctgaggatc ttttaagcaat gtttatcatc 120

accagttttc ccaaggacat gtcacaggaa ctgccaagcc taatcactcc tactgagctc 180

tatattttgt aattttcatg tgcattccga ttccgctgtg agggatcatgt gagcccgcta 240

gagaataatt gtaatcttct ttgctgcgtc tgtacttctg tttttgtgcg ccaggacgta 300

tatttttact gaaatgatac tccgtaatat attataatac ttgttttata ttatttttat 360

tgtttttatt atattattat gtttttttta tgtttttata atttattttt tttttatatt 420

atttttttat aattttttta ttt 443

<210> 1538

<211> 229

<212> DNA

<213> Glycine max

<400> 1538

ggccgcacag cccgatgttg atggattttt ggttggtggt gccaatctct tgcagtttcc 60

tccatttaca gaacctccat agataattct tacagatgca gcaactgcaa agaattggcc 120

gcacagcccg atgttgatga tttttggttg gtggtgcctc cctgaagccg gagttcgtgg 180

acatcataaa tgctgccact gtgaagaaga attgaaattc gtagttagg 229

<210> 1539

<211> 267

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)..(267)

<223> unsure at all n locations

<400> 1539

ggmntngagg ttgnacaagg gtanctctgt ctgcttctac aatttctctc gtnaccaata 60

gaaanncaaa acnanaacat gggcagaaaa ttcttcgncg gtggcaantg ganattgaan 120

gggancaatg aggaggtaaa gnagattgtn antactttga atgaggctaa agtnngctgna 180

gangatgtng tagaagttgt tgtgagaccn ctttatgtgt tccnnncatn gnaanaagtt 240



tgctgcanct gnttnccatg ttctggc

267

<210> 1540  
<211> 265  
<212> DNA  
<213> Glycine max

<400> 1540

tgggaccaa gactccatca gaaagcttgt ctctgacttg aacagtgcaa cattggagtc 60  
tgatgttgat gttgttgttg cacctccttt tgtgtacatc gatcaggtga aaaactcaat 120  
tacagatagg attgaaattt ctgccagaa ttcttgggtg ggaaaagggtg gggctttcac 180  
gggagaaatc agtgtggagc aactaaaaga ccttggctgc aagtgggtta ttcttggaca 240  
ttctgagcga agacatgtaa ttgga 265

<210> 1541  
<211> 259  
<212> DNA  
<213> Glycine max

<400> 1541

ggcaactgga agtgtaacgc aacaaaagac tcaatcagca agcttgttgc tgacttgaac 60  
aatgcaaaat tggagcctga tgttgatgtt gtcgttgacac ctcccttcct ctacatcgat 120  
caagtgaaaa actcactcac tgagcggctt gacatatctg ccagaattc ttgggttgga 180  
aaagggtggtg cttttactgg agaaatcagc gcggaacaac taaacgatct tggatgcacg 240  
tgggttggtc ttggacatt 259

<210> 1542  
<211> 245  
<212> DNA  
<213> Glycine max

<400> 1542

gcaacctcaa catccctctt ctctcaaat ctccattctc tcaactcaca gcctttctct 60  
tcctcactct ccttcttcctg aaatgtccat tccacctctc ctttcccttc ttctaaaccc 120  
tcccgtggcg ttgtagccat ggctggctct ggcaagttct ttgttgggtg caattggaag 180  
tgtaatggga ccaaagactc catcagaaaag cttgtctctg acttgaacag tgcaacattg 240

gagtc 245

<210> 1543  
 <211> 283  
 <212> DNA  
 <213> Glycine max  
 <400> 1543

agatgcacca ctctttcttc ttcaatcaat ggcagcaacc tcaacatccc tcttctcctc 60  
 aaatctccat tctctcaact cacaaccttt ctcttctca ctctccttct tctgaaatgt 120  
 ccattccacc ctctctttcc cttcttctaa accctcccgt ggcgtttag ccatggctgg 180  
 ctctggcaag ttctttgttg gtggcaattg gaagtgtaat gggaccaaag actccatcag 240  
 aaagcttgtc tctgacttga acagtgaac attggagtct gat 283

<210> 1544  
 <211> 249  
 <212> DNA  
 <213> Glycine max  
 <400> 1544

ctcgagccgc ttcaatcaat ggcagcaacc tcaacatccc tcttctcctc atatctccat 60  
 tctctcaact cataaccttt ctcttctca ctctccttcc gaaatgtcca ttccactctc 120  
 tctttccctt cttctaaacc ctctcgtggc gttgtagcca tggctggctc tggcaagtcc 180  
 tttgatggtg gcaattggaa gtgtaatggt accaaagact ccatcagaca gcttgtctct 240  
 gttttgaac 249

<210> 1545  
 <211> 278  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(278)  
 <223> unsure at all n locations  
 <400> 1545

cattcctagg taccatttgc accactcttt cttcttcaat caatggcagc aacctcaaca 60

tccctcttct cctacaaatc tccattctct caactcacia cttttctctt cctcactctc 120  
 ctttagccng tccattccac cctctctnnc anaacantct aaacctccc gtggcggtgt 180  
 agccatggct ggctctggca agtnctttgt tgggtggcaat tggaagtgtg atgggaccaa 240  
 agactccatc agaaagttgt ctctggattg aacaggca 278

<210> 1546  
 <211> 268  
 <212> DNA  
 <213> Glycine max

<400> 1546

attcaatcca agcttagatt gttttactgt tacaccattc ctaggtacca tttgcaccac 60  
 tctttcttct tcaatcaatg gcagcaacct caacatccct cttctcctca aatctccatt 120  
 ctctcaactc acaacctttc tcctcctcac tctccttctt ccgaaatgtc cattccaccc 180  
 tctctttccc ttcttataaa cctctccgtg gcgttgtagc catggctggc tctggcaagt 240  
 tctttgttgg tggcaattgg aagtgtaa 268

<210> 1547  
 <211> 289  
 <212> DNA  
 <213> Glycine max

<400> 1547

aaatttctgc ccagaattct tgggtgggaa aaggtggggc tttcacggga gaaatcagt 60  
 tggagcaact aaaagacctt ggctgcaagt gggttattct tggacattct gagcgaagac 120  
 atgtaattgg agaaaatgat gagtttatag gaaagaaaac tgcctatgct ttgagtgagg 180  
 gtcttgggtg gatagcatgt attggggaac ttctacaaga aagagaagct ggtcaaactt 240  
 tcgacatttg tttccagcaa ttgaaggctt ttgcagatgc agtgccaag 289

<210> 1548  
 <211> 270  
 <212> DNA  
 <213> Glycine max

<400> 1548

gaaatttctg ccagaattc ttgggtggga aaaggtgggg ctttcacggg agaaatcagt 60

gtggagcaac taaaagacct tggctgcaag tgggttattc ttggacattc tgagcgaaga 120  
catgtaattg gagaaaatga tgagtttata gggaagaagg ctgtctatgc tttgagtga 180  
ggcttaggtg tgatagcatg tattggggaa ctgttacaag aaagagaagc tgggaaaact 240  
ttcgatgttt gttttcagca attgaaggct 270

<210> 1549  
<211> 281  
<212> DNA  
<213> Glycine max

<400> 1549

gtgaaaaact cactcactga gcggattgaa aatctgccca gaattcttgg gttggaaaag 60  
gtggtgctct tactggagaa atcagcgcgg aacaactaaa agatcttggga tgcaagtggg 120  
ttgttcttgg acattctgag cgaagacatg ttattggaga aaatgatgag tttatagggga 180  
cgaaagctgc ctatgctttg agccaaggctc ttgggggtgat tgcattgcatt ggagaattgt 240  
tagaagaaag ggaggctgga aaaacttttg atgtttgttt t 281

<210> 1550  
<211> 223  
<212> DNA  
<213> Glycine max

<400> 1550

acggctgcga gaagacgaca gaagggtgga aaagggtggtg cttttactgg agaaatcagc 60  
gcggaacaac taaaagatct tggatgcaag tgggttggtc ttggacattc tgagcgaaga 120  
catgttattg gagaaaatga tgagtttata gggaagaaaag ctgcctatgc tttgagccaa 180  
ggctctgggg tgattgcatg cattggagaa ttgttagaag aca 223

<210> 1551  
<211> 170  
<212> DNA  
<213> Glycine max

<220>  
<221> unsure  
<222> (1)..(170)  
<223> unsure at all n locations

<400> 1551

cactgagcgg attgaaatat ctgcccagaa ttcttggggtt ggaaaaggtg gtgcttttac 60  
 tggagaaatc agcgcggaac aactaaaaga tcttggatgc aagtnggttg ttcttggaca 120  
 ttctnagcga agacatgtta ttgngaaaa tgatgagttt atagggaaga 170

<210> 1552  
 <211> 355  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(355)  
 <223> unsure at all n locations

<400> 1552

gtttcggcac aaaactgttg ggttcgcaaa ggtggtgctt ataccggtga ggttagtgct 60  
 gtcattgcttg ttaatttggg aattccttgg gttattattg gtcactctga acggaggcag 120  
 cttttaaatg aatcaaacga gtttgtggga gataaagttg cctatgcact tcaacaaggt 180  
 ctaaaagtta ttgcatgcat tggggagact ctggaacagc gtgaagctgg tacaacaacg 240  
 gctgttggtt ctgagcaaac aaaagcaatt gcagctanaa tatcaaattg ggacaatgtt 300  
 gtcttggcct acgagccagt ttggggcatt ggaacaggaa aggttgctac tcctg 355

<210> 1553  
 <211> 275  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(275)  
 <223> unsure at all n locations

<400> 1553

gagcaaacia aagcaattgc agctaaaatn tcaaattggg acaatgtcgt tttggcctat 60  
 gagccagttt gggccatttg aacaggaaaag gttgcaactc ctgctcaggc tcaagaggtt 120  
 catgctgatt taaggaaatg ggttcatgac aatgtgagtg ctgaagttgc tgcattctga 180  
 agaattatct atggaggctc tgtaaattga ggaaactgca aagaattggc agcacagccc 240  
 gatgttgatg gatTTTTTgt tggtggtgca tcctt 275

<210> 1554  
 <211> 268  
 <212> DNA  
 <213> Glycine max

<400> 1554

gtgggagata aagttgccta tgcacttcaa caaggtctaa aagttattgc atgcattggg 60  
 gagactctcg aacagcgtga agctggtaca acaacggctg ttgtttctga gcaaacaaaa 120  
 gcaattgcag ctaaaatata aaattgggac aatgtcgttt tggcctacga gccagtttgg 180  
 gccattggaa caggaaaggt tgctactcct gctcaggctc aagaggtcca tgctgatttg 240  
 aggaaatggg ttcattgacaa tgtgagtg 268

<210> 1555  
 <211> 264  
 <212> DNA  
 <213> Glycine max

<400> 1555

gtgggagata aagttgccta tgcacttcaa caaggtctga aagttatagc atgcattggg 60  
 gaaactcttg aacagcgtga agctggtaca acaacggctg ttgttgctga gcaaacaaaa 120  
 gcaattgcag ctaaaatata aaattgggac aatgtcgttt tggcctatga gccagtttgg 180  
 gccattggaa caggaaaggt tgcaactcct gctcaggctc aagaggttca tgctgattta 240  
 aggaaatggg ttcattgacaa tgtg 264

<210> 1556  
 <211> 256  
 <212> DNA  
 <213> Glycine max

<400> 1556

catgcattgg ggacactctt gaacagcgtg aagctggtac aacaacggct gttgttgctg 60  
 agcaaacaaa agcaattgca gctaaaatat caaattggga caatgtcggt ttggcctatg 120  
 agccagtttg ggccattgga acaggaaagg ttgcaactcc tgctcaggct caagaggttc 180  
 atgctgattt aaggaaatgg gttcatgaca atgtgagtgc tgaaattgct gcatctgtaa 240  
 gaattatcta tggagg 256

<210> 1557  
 <211> 270  
 <212> DNA  
 <213> Glycine max

<400> 1557

gtccctggag aagatgttgt agaagttgtt gtgagccctc cttttgtgtt ccttcctttt 60  
 gtaaaaagtt tgctgcgccc tgatttccat gtctcggccc aaaattgttg ggttcgcaaa 120  
 ggtggtgctt atactggagt cgtagtgct gaaatgcttg ttaatttggg aattccttgg 180  
 gttattattg gtcactctga acggaggcag cttttgaatg aatcaaatga gtttgtggga 240  
 gataaagttg cctatgcact tcaacaaggt 270

<210> 1558  
 <211> 264  
 <212> DNA  
 <213> Glycine max

<400> 1558

cggagataaa gttgcctatg cacttcaaca aggtctaaca gttattgcat gcattgggga 60  
 gactctcgaa cagcgtgaag ctggtacaac aacggctgtt gtttctgagc aaacaaaagc 120  
 aattgcagct aaaatatcaa attgggacaa tgttgttttg gcctacgagc cagtttgggc 180  
 cattggcaca ggaaaggttg ctactcctgc tcaggctcaa gaggtccatg ctgatctgag 240  
 gaaatggggt catgacaatg tgag 264

<210> 1559  
 <211> 258  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(258)  
 <223> unsure at all n locations

<400> 1559

gcattgggga gactctcgaa cagcgtgaag ctggtacaac aacggctgtt gtttctgagc 60  
 aaacaaaagc aattgcagct aaaatatcaa attgggacaa tgctgttttg gcctacgagc 120

cagtttgngc cattggaaca ggaaagnttg ctactcctgc tcaggctcaa gaggtccatg 180  
 cggatttgag gaaatggggt catgacaatg tgagtgctga agttgctgca tcggtaanat 240  
 ttatctangg aggtctgt 258

<210> 1560  
 <211> 278  
 <212> DNA  
 <213> Glycine max

<400> 1560

tgcttatact ggagaggtta gtgctgaaat gcttgттаат ttgggaattc cttgggттат 60  
 tattggtcac tctgaacgga ggcagctttt gaatgaatca aatgagtttg tgggagataa 120  
 agttgcctat gcacttcaac aaggtctgaa agttatagca tgcattgggg aaactcttga 180  
 acagcgtgaa gctggtacaa caacggctgt tgttgctgag caaacaaaag caattgcagc 240  
 taaaatatca aattgggaca atgtcgtttt ggcctatg 278

<210> 1561  
 <211> 278  
 <212> DNA  
 <213> Glycine max

<400> 1561

ctcgtttcaa tcgaaaccaa aacaaaaaca tgggcagaaa attcttcgтc ggtggcaact 60  
 ggaaatgcaa tgggaccact gaggaggtaa agaagattgt tactactttg aatgaggcta 120  
 aagtccttgг agaagatgtc gtagaagttg ttgtgagccc tcctttttgtg ttccttcctg 180  
 ttgtaaaaag tttgctgcgc cctgatttcc atgtttcggc acaaaactgt tgggttcgca 240  
 aaggtggtgc ttataccggt gaggttagtg ctgaaatg 278

<210> 1562  
 <211> 272  
 <212> DNA  
 <213> Glycine max

<400> 1562

aaaacaaaa catgggcaga aaattcttcg tcggtggcaa ctggaaatgc aatgggacca 60  
 ctgaggaggt aaagaagatt gttactactt tgaatgaggc taaagtcctt ggagaagatg 120



tcgtagaagt tgttgtgagc cctccttttg tgttccttcc tgttgtaaaa agtttgctgc 180  
gccctgattt ccatgtttcg gcaaaactgt tgggttcgca aaggtggtgc ttataccggt 240  
gaggttagtg ctgaaatgct tgttaatttg gg 272

<210> 1563  
<211> 264  
<212> DNA  
<213> Glycine max

<400> 1563

tacggctgcg agaagacgac agaaggggaa gttgttgtga gccctccttt tgtgttcctt 60  
cctgttgtaa aaagtttgct gcgcctgat ttccatgttt cggcacaaaa ctgttggggtt 120  
cgcaaagggtg gtgcttatac cggtgagggt agtgctgaaa tgcttgtaa tttgggaatt 180  
ccttgggtta ttattggtca ctctgaacgg aggcagcttt taaatgaatc aaacgagttt 240  
gtgggagata aagttgccta tgca 264

<210> 1564  
<211> 257  
<212> DNA  
<213> Glycine max

<400> 1564

ctcgagccgg ttgcaactcc tgctcaggct caagagggtc atgctgattt aaggaaatgg 60  
actcatgaca atgtgagtgc tgaagttgct gcatctgtaa gaattatcta tggaggctct 120  
gtaaatggag gaaactgcaa agaattggca gcacagcccg atgttgatgg atttttgggtt 180  
ggtgtggcat ccctcaaggc ggaatttgtg gacatcataa acgctgctac tgtgaagaag 240  
aattgaaatt cgtagtt 257

<210> 1565  
<211> 283  
<212> DNA  
<213> Glycine max

<400> 1565

cttcactttc tctcgtttca atcgaaaaaa atcatgggca gaaaattctt cgtcgggtggc 60  
aactggaaat gcaatgggac cactgaggag gtgaagaaga ttgttactac tttaaataa 120

gctaaagtcc ctggagaaga tggtgtagaa gttgttgtga gccctccttt tgtgttcctt 180  
 ccttttgtaa aaagtttgct ggcacctgat ttccatgtct cgccccaaaa ttgttgggtt 240  
 cgcaaagggtg gtgcttatac tggagatgtt agtgctgaaa tgc 283

<210> 1566  
 <211> 256  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(256)  
 <223> unsure at all n locations

<400> 1566

aaaaaatcat gggcagaaaa ttcttcgtcg gtggtcaact ggaaatgcaa tgggaccact 60  
 gaggaggtga agnagattgt tactacttta aatgaagcta aagtccttgg agaagatgtt 120  
 gtagaagttg ttgtgagccc tccttttgtg ttccttcctt ttgtaaaaag tttgctgcgc 180  
 cctgatttcc atgtctcggc ccaaanttgt tgggttcgca aaggtggtgc ttatactgga 240  
 gangntagtg ctgaaa 256

<210> 1567  
 <211> 262  
 <212> DNA  
 <213> Glycine max

<400> 1567

gtaaaaaatc atgggcagaa aattcttcgt cgggtggcaac tggaaatgca atgggaccac 60  
 tgaggaggtg aagaagattg ttactacttt aaatgaagct aaagtccttg gagaagatgt 120  
 tgtagaagtt gttgtgagcc ctcttttgtg gttccttcct tttgtaaaaa gtttgctgcg 180  
 ccctgatttc catgtctcgg cccaaaattg ttgggttcgc aaaggtggtg cttatactgg 240  
 agaggttagt gctgaaatgc tt 262

<210> 1568  
 <211> 266  
 <212> DNA  
 <213> Glycine max

<400> 1568

gtctgcttct tcactttctc tcgtttcaat cgaaaaaat catgggcaga aaattcttcg 60  
tcggtggcaa ctggaaatgc aatgggacca ctgaggaggt gaagaagatt gttactactt 120  
taaatgaagc taaagtcctt ggagaagatg ttgtagaagt tgttgtgagc cctccttctg 180  
tgttccttcc ttttgtaaaa agtttgctgc gccctgattt ccatgtctcg gcccaaaatt 240  
gttgggttcg caaagggtgt gcttat 266

<210> 1569  
<211> 281  
<212> DNA  
<213> Glycine max

<220> .  
<221> unsure  
<222> (1)..(281)  
<223> unsure at all n locations

<400> 1569

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cctgatttcc atgtctcggc ccaaaattgt tgggttcgca aagggtgtgc ttatactgga 120  
gaggttagtg ctgaaatgct tgtnaatttg ggaattcctg ggttattatt ggtcactctg 180  
aacggaggca gcttttgaat gaatcaaag agtttggtggg nccataaagt tgcctatgca 240  
cttcaacaag gtctgaaatt atagcatgca ttgggccaac c 281

<210> 1570  
<211> 284  
<212> DNA  
<213> Glycine max

<400> 1570

atcttcactt tctctcgttt caatcgaaac caaaacaaaa acatgggcag aaaattcttc 60  
gtcgggtggca actggaaatg caatgggacc actgaggagg taaagaagat tgttactact 120  
ttgaatgagg ctaaagtccc tggagaagat gtcgtagaag ttgttgtgag cctccttttt 180  
gtgttccttc ctgttgtaaa aagtttgctg cgccctgatt tccatgtttc ggcacaaaaac 240  
tgttgggttc gcaaagggtg tgcttatacc ggtgagggtta gtgc 284

<210> 1571

<211> 262  
 <212> DNA  
 <213> Glycine max  
  
 <400> 1571  
  
 gcttcttcac tttctctcgt ttcaatcgaa accaaaacaa aaacatgggc agaaaattct 60  
 tcgtcggtgg caactggaaa tgcaatggga ccaactgagga ggtaaagaag attgttacta 120  
 ctttgaatga ggctaaagtc cctggagaag atgtcgtaga agttgttggt agccctcctt 180  
 ttgtgttcct tcctgttgta aaaagtttgc tgcgccctga tttccatgtt tcggcacaaa 240  
 actgttgggt tcgcaaaggt gg 262

<210> 1572  
 <211> 274  
 <212> DNA  
 <213> Glycine max  
  
 <220>  
 <221> unsure  
 <222> (1)..(274)  
 <223> unsure at all n locations  
  
 <400> 1572  
  
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 aaattcttcg tcggtggcaa ctggaaatgc aatgggacca ctgaggaggt gaagaagatt 120  
 gttactactt taaatgaagc taaagtcctt ggagaagatg ttgtagaagt tggtgtgagc 180  
 cntccttttg tggtccttcc ttttgtaaaa agtttgetgc gccctgattt ccatgtctcg 240  
 gcccaaaatt gttgggttcg caaagtgggtg ctta 274

<210> 1573  
 <211> 253  
 <212> DNA  
 <213> Glycine max  
  
 <400> 1573  
  
 cactttctct cgtttcaatc gaaaaaaatc atgggcagaa aattcttcgt cggtggcaac 60  
 tggaaatgca atgggaccac tgaggaggtg aagaagattg ttactacttt aaatgaagta 120  
 aagtccttgga agaagatgtt gtagaagttg ttgtgagccc tccttttgtg ttccttcctt 180  
 ttgtaaaaag tttgtgcgc cctgatttcc atgtctcggc ccaaaattgt tgggttcgca 240

aagggtggtgc tta 253

<210> 1574  
 <211> 284  
 <212> DNA  
 <213> Glycine max  
 <400> 1574

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 aatcatgggc agaaaattct tcgtcgggtg caactggaaa tgcaattggg aactgagga 120  
 ggtgaagaag attgttacta ctttaaata agctaaagtc cctggagaag atgttgtaga 180  
 agttgttggt agccctcctt ttgtgttctt tccttttgta aaacgtttgc tgcgccctga 240  
 tttccatgtc tcggcccaaa attgttgggt tcgcaaagggt ggtg 284

<210> 1575  
 <211> 278  
 <212> DNA  
 <213> Glycine max  
 <400> 1575

gcttcttcac tttctctcgt ttcaatcgaa agcaaaacaa aaacatgggc agaaaattct 60  
 tcgtcgggtg caactggaaa tgcaatggga cactgagga ggtaaagaag attgttacta 120  
 ctttgaatga ggctaaagtc cctggagaag atgtcgtaga agttgttggt agccctcctt 180  
 ttgtgttctt tcctgttgta aaaagtttgc tggcgccctg atttccatgt ttcggcacaa 240  
 aactgttggg ttcgcaaagg tgggtgcttat accggtga 278

<210> 1576  
 <211> 271  
 <212> DNA  
 <213> Glycine max  
 <400> 1576

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 aatcatggg cagaaaattc ttcgtcgggt gcaactggaa atgcaatggg accactgagg 120  
 aggtgaagaa gattgttact actttaaatg aagctaaagt ccctggagaa gatgttgtag 180  
 aagttgttggt gagccctcct tttgtgttcc ttcttttgt aaaaagtttg ctgcgccctg 240

atttccatgt ctcggcccaa aattgttggg t 271

<210> 1577  
 <211> 263  
 <212> DNA  
 <213> Glycine max  
 <400> 1577

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 gcagaaaatt cttcgctcggg ggcaactgga aatgcaatgg gaccactgag gaggtaaaga 120  
 agattgttac tactttgaat gaggctaaag tccctggaga agatgtcgtga gaagttgttg 180  
 tgagccctcc ttttgtgttc cttcctgttg taaaaagttt gctgcgccct gatttccatg 240  
 tttcggcaca aaactgttgg gtt 263

<210> 1578  
 <211> 285  
 <212> DNA  
 <213> Glycine max  
 <400> 1578

ctcgagccgg ttgaacaagg gtttctctgt ctgcttcttc actttctctc gtttcaatac 60  
 gcaacccaaa caaaaacatg ggcagaaaat tcttcgctcg tggcaactgg aaatgcaatg 120  
 ggaccactga ggaggtaaag aagattgtta ctactttgaa tgaggctaaa gtccctggag 180  
 aagatgtcgt agaagttgtt gtgagccctc cttttgtgtt cttcctgtt gtaaaaagtt 240  
 tgctgcgcc tgatttccat gtttcggcac aaaactgttg ggtcg 285

<210> 1579  
 <211> 269  
 <212> DNA  
 <213> Glycine max  
 <400> 1579

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 atgggcagaa aattcttcgt cgggtggcaac tggaaatgca atgggaccac tgaggaggta 120  
 aagaagattg ttactacttt gaatgaggct aaagtccttg gagaagatgt cgtagaagtt 180  
 gttgtgagcc ctccttttgt gttccttcct gttgtaaaaa gtttgctgcg ccctgatttc 240

catgtttcgg cacaaaactg ttgggttcg 269

<210> 1580  
 <211> 253  
 <212> DNA  
 <213> Glycine max  
 <400> 1580

gcactttctc tcgtttcaat cgaaaccaa ctccaaacgt gggcagaaaa ttcttcgtcg 60  
 gtggcaactg gaaatgccct gggaccactg aggaggtaaa gaagattggt actactttga 120  
 atgaggctaa agtccttgga gaagatgtcg tagaagttgt tgtgagccct ccttttgtgt 180  
 tccttcctgt tgtaaaaagt ttgctgcgcc ctgatttcca tgtttcggca caaaactggt 240  
 gggttcgcaa agg 253

<210> 1581  
 <211> 253  
 <212> DNA  
 <213> Glycine max  
 <400> 1581

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 tgggaccact gaggagggtga agaagattgt tactacttta aatgaagcta aagtccttg 120  
 agaagatggt gtagaagttg ttgtgagccc tccttttgtg ttccttcctt ttgtaaaaag 180  
 tttgctgcgc cctgatttcc atgtctcggc ccaaaatggt gggttcgcaa aggtggtgct 240  
 tatactggag agt 253

<210> 1582  
 <211> 257  
 <212> DNA  
 <213> Glycine max  
 <400> 1582

ggttttctctg tctgcttctt cactttctct cgtttcaatc gaaacaaaa caaaaacatg 60  
 ggcagaaaat tcttcgtcgg tggcaactgg aaatgcaatg ggaccactga ggaggtaaag 120  
 aagattgtta ctactttgaa tgaggctaaa gtccctggag aagatgtcgt agaagttggt 180  
 gtgagccctc cttttgtgtt ccttcctggt gtaaaaagtt tgctgcgccc tgatttccat 240

gtttcggcac aaaactg 257

<210> 1583  
 <211> 238  
 <212> DNA  
 <213> Glycine max  
 <400> 1583

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 gcaactggaa atgcaatggg accactgagg aggtaaagaa gattgttact actttgaatg 120  
 aggctaaagt ccttgagaa gatgtcgtag aagttgttgt gagccctcct tttgtgttcc 180  
 ttctgttgtt aaaaagtttg ctgcgcctg atttccatgt ttcggcacia aactgttg 238

<210> 1584  
 <211> 256  
 <212> DNA  
 <213> Glycine max  
 <400> 1584

ggtttctctg tctgcttctt cactttctct cgtttcaatc gaaacaaaa caaaaacatg 60  
 ggcagaaaat tcttcgtcgg tggcaactgg aaatgcaatg ggaccactga ggaggtaaag 120  
 aagattgtta ctactttgaa tgaggctaaa gtccctggag aagatgtcgt agaagttgtt 180  
 gtgagccctc cttttgtgtt ccttctgtt gtaaaaagtt tgctgcgcc tgatttccat 240  
 gtttcggcac aaaact 256

<210> 1585  
 <211> 255  
 <212> DNA  
 <213> Glycine max  
 <400> 1585

tcgtgtctg cttcttact ttctctcgtt tcaatcgaga ccagaacaaa aacatgggca 60  
 gaaaattctt cgtcggtgge aactggaaat gcaatgggat cactgaggag gtaaagaaga 120  
 ttgttactac tttgaatgag gctaaagtcc ctggagaaga tgtcgtagaa gttgttgtga 180  
 gccctccttt tgtgttctt cctgttgtaa aaagtttget gcgccctgat ttccatgttt 240  
 cggcacgaaa ctgtt 255



<210> 1586  
 <211> 259  
 <212> DNA  
 <213> Glycine max

<400> 1586

tctgtctgct tcttcacttt ctctcgtttc aatcgaaacc aaaacaaaaa catgggcaga 60  
 aaattcttcg tcggtggcaa ctggaaatgc aatgggacca ctgaggaggt aaagaagatt 120  
 gttactactt tgaatgaggc taaagtcctt ggagaatgtc gtagaagttg ttgtgagccc 180  
 tccttttgtg ttccttctcg ttgtaaaaag tttgctgcgc cctgatttcc atgtttcggc 240  
 acaaaaactgt tgggttcgc 259

<210> 1587  
 <211> 250  
 <212> DNA  
 <213> Glycine max

<400> 1587

tgcttcttca ctttctctcg tttcaatcga gaaaaatcat gggcagaaga ttcttcgctg 60  
 gtggcaactg gaaatgcaat gggaccactg aggaggtgaa gaagattgtg actacttta 120  
 atgaagctaa agtccttgga gagatgttgt agaagttgtt gtgagccctc cttttgtgtt 180  
 ccttcctttt gtaaaaagtg tgctgcgccc tgatttccat gtctcgcccc aaaattgttg 240  
 ggttcgcaaa 250

<210> 1588  
 <211> 265  
 <212> DNA  
 <213> Glycine max

<400> 1588

attgttgaac aagggtttct ctgtctgctt cttcactttc tctcgtttca atcgaaacca 60  
 aaacaaaaac atgggcagaa aattcttcgt cggtggcaac tggaaatgca atgggaccac 120  
 tgaggaggta aagaagattg ttactacttt gaatgaggct aaagtccttg gagaagatgt 180  
 cgtagaagtt gttgtgagcc ctcttttgtg gttccttctt gttgtaaaaa gtttgctgcg 240  
 ccctgatttc catgtttcgg caca 265

<210> 1589  
 <211> 267  
 <212> DNA  
 <213> Glycine max

<400> 1589

gtttctcttt ctctttctct gtctgcttct tcactttctc tcgtttcaat cgaaaaaat 60  
 catgggcaga aaattcttcg tcggtggcaa ctggaaatgc aatgggacca ctgaggaggt 120  
 gaagaagatt gttatacttt aaatgaagct aaagtccttg gagaagatgt tgtagaagtt 180  
 gttgtgagcc ctcttttctg gttccttctt tttgtaaaaa gtttgctgcg ccttgatttc 240  
 catgtctcgg cccaaaattg ttgggtt 267

<210> 1590  
 <211> 250  
 <212> DNA  
 <213> Glycine max

<400> 1590

agggtttctc tttctctttc tctgtctgct tcttcacttt ctctcgtttc aatcgaaaaa 60  
 aatcatgggc agaaaattct tcgtcgggtg caactggaaa tgcaatggga ccaactgagga 120  
 ggtgaagaag attgttacta ctttaaatga agctaaagtc cctggagaag atgttgtaga 180  
 agttgttggt agccctcctt ttgtgttctt tccttttgta aaaagtttgc tgcgcctga 240  
 ttccatgtc 250

<210> 1591  
 <211> 251  
 <212> DNA  
 <213> Glycine max

<400> 1591

gttgaacaag gggttctctg tctgcttctt cactttctct cgtttcaatc gaaaccataa 60  
 caaaaacatg ggcagaaaat tcttcgtcgg tggcaactgg aaatgcaatg ggaccactga 120  
 ggaggtaaag aagattgtta ctactttgaa tgaggctaaa gtccttgag aagatgtcgt 180  
 agaagttggt gtgagccctc cttttgtgtt ctttcctgtt gtaaaaagtt tgctgcgctc 240  
 tgatttccat g 251

<210> 1592  
 <211> 245  
 <212> DNA  
 <213> Glycine max

<400> 1592

cttctctgtc tgcttcttca ctttctctcg tttcaatcga aaccaaaca aaaacatggg 60  
 cagaaaattc ttcgtcgggtg gcaactggaa atgcaatggg accactgagg aggtaaagaa 120  
 gattgttact actttgaatg aggctaaagt ccctggagaa gatgtcgtag aagttgttgt 180  
 gagccctcct tttgtgttcc ttcctgttgt aaaaagtttg ctgcgccctg atttccatgt 240  
 ttctgg 245

<210> 1593  
 <211> 253  
 <212> DNA  
 <213> Glycine max

<400> 1593

gggtttctct ttctctttct ctgtctgctt cttcactttc tctcgtttca atcgaaaaaa 60  
 atcatgggca gaaaattctt cgtcgggtggc aactggaaat gcaatgggac cactgaggag 120  
 gtgaagaaga ttgttactac tttaaataaa gctaaagtcc ctggagaaga tgtttagtaa 180  
 gttgttgtga gccctccttt tgtgttctct ccttttgtaa aaagtttgct gcgccttgat 240  
 ttccatgtct cgg 253

<210> 1594  
 <211> 262  
 <212> DNA  
 <213> Glycine max

<400> 1594

tgttgaacaa gggtttctct gtctgcttct tcactttctc tcgtttcaat cgaaaccaa 60  
 aaaaaatcat gggcagaaaa ttcttcgttg gtggcaactg gaaatgcaat gggaccactg 120  
 aggaggtaaa gaagattgtt actactttga atgaggctaa agtacctgga gaagatgtcg 180  
 tagaagttgt tgtgagccct ccttttggtg tcttctctgt tgtaaaaagt ttgctgcgcc 240  
 ctgatttcca tgtttcggca ca 262

<210> 1595  
 <211> 253  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(253)  
 <223> unsure at all n locations

<400> 1595

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 tgggcagaaa attcttcgtn ggtggcaact ggaaatgcaa tgggaccact gaggaggtaa 120  
 agaagattgt tactactttg aatgaggcta aagtcacctg ngaagatgtc gtagaagttg 180  
 ttgtgagccc tccttttgty ttccttctg ttgtaaaaag tttgctgcgc cctgatttcc 240  
 atgtttcggn cac 253

<210> 1596  
 <211> 249  
 <212> DNA  
 <213> Glycine max

<400> 1596

gttgaacaag ggtttctctg tctgcttctt cactttctct cgtttcaatc gaaacaaaaa 60  
 caaaaacatg ggcagaaaat tcttcgctcg tggcaactgg aaatgcaatg ggaccactga 120  
 ggaggtaaag aagattgtta ctactttgaa tgaggctaaa gtccttgag aagatgtcgt 180  
 agaagttggt gtgagccctc cttttgtgtt ctttctgtt gtaaaaagtt tgctgcgccc 240  
 tgatttcca 249

<210> 1597  
 <211> 248  
 <212> DNA  
 <213> Glycine max

<400> 1597

acaacaacgg ctgttggtgc tgagcaaaca aaagcaattg cagctaaaat atcaaattgg 60  
 gacaatgtcg ttttgacctg tgcgccagtt tgggccattg gaacaggaaa gggtgcaact 120

cctgctcagg gctcagaggt tcatgctgat taaggaaatg gggcatgac aatgtgagtt 180  
 ctgaagttgc cgcattctgta ggaataatct atggaggctc tgtaaattga ggaaactgca 240  
 aagaattg 248

<210> 1598  
 <211> 255  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(255)  
 <223> unsure at all n locations

<400> 1598

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 caanacaaaa tcatgggcag aaaattcttc gttggtggca actggaaatg caatgggacc 120  
 actgaggagg taaagaagat tgttactact ttgaatgagg ctaaagtccc tggagaagat 180  
 gtcgtagaag ttgttgtgag ccctcctttt gtgttccttc ctgttgtaaa aagtttgctg 240  
 cgccctgatt tccat 255

<210> 1599  
 <211> 263  
 <212> DNA  
 <213> Glycine max

<400> 1599

gttgaacaag ggtttctctg tctgcttctt cactttctct cgtttcaatc gaaaccaaaa 60  
 caaaaacatg ggcagaaaat tcttcgtcgg tggcaactgg aaatgcaatg ggaccactga 120  
 ggaggtaaag aagattgtta ctactttgaa tgaggctaaa gtccttgag aagatgtcgt 180  
 agaagttggt gtgagccctc cttttgtgtt ctttcctgtt gtaaaaagtt tgctgcgccc 240  
 tgatttccat gtttcggcac aaa 263

<210> 1600  
 <211> 251  
 <212> DNA  
 <213> Glycine max

<400> 1600

tgttgaacaa gggtttctct gtctgcttct tcactttctc acgtttcaat cgaaaccaa 60  
 acaaaaacat gggcagaaaa ttcttcgctg gtggcaactg gaaatgcaat gggaccactg 120  
 aggaggtaaa gaagattggt actactttga atgaggctaa agtccctgga gaagatgtcg 180  
 tagaagttgt tgtgagccct accttttgtg ttcttacctg ttgtaaaaag tttgctgcgc 240  
 cctgatttcc a 251

<210> 1601  
 <211> 255  
 <212> DNA  
 <213> Glycine max  
 <400> 1601

tgaacaaggg tttctctgtc tgcttcttca ctttctctcg tttcaatcga aaccaaaca 60  
 aaaacatggg cagaaaattc ttcgtcgggtg gcaactggaa atgcaatggg accactgagg 120  
 aggtaaagaa gattgttact actttgaatg aggctaaagt ccctggagaa gatgtcgtag 180  
 aagttgttgt gagccctcct tttgtgttcc ttctgtttgt aaaaagtttg ctgcgccctg 240  
 atttccatgt ttcgg 255

<210> 1602  
 <211> 246  
 <212> DNA  
 <213> Glycine max  
 <400> 1602

tgttgaacaa gggtttctct gtctgcttct tcactttctc tcgtttcaat cgaaaccaa 60  
 acaaaaacat gggcagaaaa ttcttcgctg gtggcaactg gaaatgcaat gggaccactg 120  
 aggaggtaaa gaagattggt actactttga atgaggctaa agtccctgga gaagatgtcg 180  
 tagaagttgt tgtgagccct ccttttgtgt tccttctgtg tgtaaaaagt ttgctgcgcc 240  
 ctgatt 246

<210> 1603  
 <211> 249  
 <212> DNA  
 <213> Glycine max  
 <400> 1603

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aaacaaaatc atgggcagaa aattcttcgt tgggtggcaac tggaaatgca atgggaccac 120  
tgaggaggta aagaagattg ttactacttt gaatgaggct aaagtccttg gagaagatgt 180  
cgtagaagtt gttgtgagcc ctctttttgt gttccttcct gttgtaaaaa gtttgctgcg 240  
ccctgattt 249

<210> 1604  
<211> 227  
<212> DNA  
<213> Glycine max

<400> 1604

tgcttcttca ctttctctcg tttcaatcga aacaaaaaca aaaacatggg cagaaaattc 60  
ttcgtcggtg gcaactggaa atgcaatggg accactgagg aggtaaagaa gattgttact 120  
actttgaatg aggctaaagt cccgggggaa gatgtcgtag aagttgttgt gagccctcct 180  
tttgtgttcc ttctgttgt aaaaagtttg ctgcgccttg atttcca 227

<210> 1605  
<211> 266  
<212> DNA  
<213> Glycine max

<400> 1605

gttgagcaag gggttctctg tctgcttctt cactttctct cgtttcaatc gaaacaaaaa 60  
caaaaacatg ggcagaaaat tcttcgctcg tggcaactgg aaatgcaatg ggaccactga 120  
ggaggtaaag aagattgtta ctactttgaa tgaggctaaa gtccttgag aagatgtcgt 180  
agaagttgtt gtgagccctc cttttgtgtt ctttctgtt gtagaaagtt tgctgcgccc 240  
tgatttccat gtttcggcac aaaact 266

<210> 1606  
<211> 258  
<212> DNA  
<213> Glycine max

<400> 1606

gttgaacaag gggttctctg tctgcttctt cactttctct cgtttcaatc gaaacaaaaa 60

caaaaacatg ggcagaaaat tcttcgtcgg tggcaactgg aaatgcaatg ggaccactga 120  
ggaggtaaaag aagattgtta ctactttgaa tgaggctaaa gtccctggag aagatgtcgt 180  
agaagttggt gtgagccctc cttttgtgtt ccttcctgtt gtaaaaagtt tgctgcgcc 240  
tgatttccat gtttcggc 258

<210> 1607  
<211> 242  
<212> DNA  
<213> Glycine max

<400> 1607

tggtgaacaa gggtttctct gtctgcttct tcactttctc tcgtttcaat cgaaaccaa 60  
acaaaaacat ggcagaaaa ttcttcgtcg gtggcaactg gaaatgcaat gggaccactg 120  
aggaggtaaa gaagattggt actactttga atgaggctaa agtccttgga gaagatgtcg 180  
tagaagttgt tgtgagccct cttttgtgt tccttcctgt tgtaaaaagt ttgctgcgcc 240  
ct 242

<210> 1608  
<211> 252  
<212> DNA  
<213> Glycine max

<220>  
<221> unsure  
<222> (1)..(252)  
<223> unsure at all n locations

<400> 1608

ggtgaacaag ggtttcnctg tenccttcnn cactttctct ccgtttcaat cgaaaccaa 60  
acaaaatcat ggcannaaa ttcttcgttg gtggcaantg ganatgcaat gggaccactg 120  
aggaggtaaa gnagattggt actactttga atgaggctaa agtccttgga gaagatgtcg 180  
tagaagttgt tgtgagccct ctttngtgt tccttcctgt tgtaaaaagt ttgctgcgcc 240  
ctgatttcca tg 252

<210> 1609  
<211> 266  
<212> DNA



<213> Glycine max  
 <400> 1609

```

tttctctttc tctttctctg tctgcttctt cactttctct cgtttcaatc gaaaaaaatc 60
atgggcagaa aattcttcgt cggtaggcaac tggaaatgca atgggaccac tgaggaggtg 120
aagaagattg ttactacttt aaatgaagct aaagtccttg gagaagatgt tgtagaagtt 180
gttgtagagcc ctctttttgt gttccttctt tttgtaaaaa gtttgctggc gccctgattt 240
ccatgtctcg gcccaaaatt gttggg                                     266

```

<210> 1610  
 <211> 339  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(339)  
 <223> unsure at all n locations

<400> 1610

```

gttgaacaag ggtttctctg tctgcttctt cactttctct cgtttcaatc gaaacaaaaa 60
caaaaacatg ggcagaaaat tcttcgtcgg tggcaactgg aaatgcaatg gggaccactg 120
aggaggtaaa gaagattggt actactttga atgaggctaa agtccttgga gaagatgtcg 180
tagaagttgt tgtgagccct ccttttgtgt tccttctctg tgtaaaaagt ttgctgcgcc 240
ctgattccat gtttcggcac aaaactgttg ggttcgcaaa gtggtgctta taccggaggt 300
tagtgctgaa atgctgttaa ttgggaatcc cctngggaa                                     339

```

<210> 1611  
 <211> 272  
 <212> DNA  
 <213> Glycine max

<400> 1611

```

attgtattgt tgaacaaggg tttctctgtc tgcttcttca ctttctctcg tttcaatcga 60
aaccaggttg aggacatggg cagaaaattc ttcgtcgggtg gcaactggaa atgcaatggg 120
accactgagg aggtaaagaa gattgttact actttgaatg aggctaaagt ccctggagaa 180
gatgtcgtag aagttgttgt gagccctcct tttgtgttcc ttctgttgtt aaaaagtttg 240

```

ctgcgccctg atttccatgt ttcggcacaa aa

272

<210> 1612  
<211> 264  
<212> DNA  
<213> Glycine max

<220>  
<221> unsure  
<222> (1)..(264)  
<223> unsure at all n locations

<400> 1612

ggtttctctt tctctttctc ngctctgcttc ntcactttct ctcgtntcaa tcgaaaaaaaa 60  
tcatgggcag aaaattcttc gtcggtggca actggaaatg caatgggacc actgaggagg 120  
tgaagaagat tggtactact ttaaatagaag ctaaagtccc tggagaagat gttgtagaag 180  
ttgttgtagag cctcctttt gtgttccttc ctttgtanaa agtttgctgc gccctgattt 240  
nccatgtctc ggcccaaat tggt 264

<210> 1613  
<211> 190  
<212> DNA  
<213> Glycine max

<400> 1613

ttaaaatcat gggcagaaaa ttcttcgctc gtggcaactg gaaatgcaat gggaccactg 60  
aggaggtgaa gaagattgtt actacttta atgaagctaa agtccctgga gaagatgttg 120  
tagaagttgt tgtgagccct ctttttgtgt tccttccttt tgtaaaaagt ttgctgcgcc 180  
ctgatttcca 190

<210> 1614  
<211> 249  
<212> DNA  
<213> Glycine max

<400> 1614

caatgaacaa gggtttctct ttctctttct ctgtctgctt cttcactttc tctcgtttca 60  
atcgaaaaaa atcatgggca gaaaattctt cgtcgggtggc aactggaaat gcaatgggac 120

cactgaggag gtgaagaaga ttgttactac tttaaataa gctaaagtcc ctggagaaga 180  
 tgtttagataa gttgttgtga gccctccttt tgtgttcctt ccttttgtaa aaagtttgct 240  
 gcgccctga 249

<210> 1615  
 <211> 257  
 <212> DNA  
 <213> Glycine max

<400> 1615

gttgaacaag ggtttctctg tctgcttctt cactttctct cgtttcaatc gaaacaaaa 60  
 caaaaacatg ggcagaaaat tcttcgtcgg tggcaactgg aaatgcaatg ggaccactga 120  
 ggaggtaaag aagattgtta ctactttgaa tgaggctaaa gtccctggag aagatgtcgt 180  
 agaagttggt gtgagccctc cttttgtgtt ccttcctggt gtaaaagttt gctgcgccct 240  
 gatttccatg tttcggc 257

<210> 1616  
 <211> 237  
 <212> DNA  
 <213> Glycine max

<400> 1616

ctcgagccgg ttgaacaagg gtttctctgt ctgcttcttc actttctctc gtttcaatcg 60  
 aaacaaaaac aaaaacatgg gcagaaaatt cttcgtcggg ggcaactgga aatgcaatgg 120  
 gaccactgag gaggtaaaga agattgttac tactttgaat gaggctaaag tccctggaga 180  
 agatgtcgta gaagttgttg tgagccctcc ttttgtgttc cttcctcttg taaaaag 237

<210> 1617  
 <211> 245  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(245)  
 <223> unsure at all n locations

<400> 1617

gtagaactga acaagggttt ctctttctct ttctctgtct gcttcttcac tttctctcgt 60

ttcaatcgca aaaaaatcat gggcagaaaa ttcttcgctg gtggcaactg gaaatgcaat 120  
 gggaccactg aggaggtgaa gaagattgtt actactttta atgaagctaa agtccctgga 180  
 gaagatgtn aagaagttgt tgtgagccct ccttttgtgt tccttccttt gtaaaaagtt 240  
 tgctg 245

<210> 1618  
 <211> 259  
 <212> DNA  
 <213> Glycine max  
 <400> 1618

agggtttctc tttctcttct tctgtctgct tcttcacttt ctctcggtca atcgaaaaaa 60  
 atcatgggca gaaaattctt cgtcgggtggc aactggaaat gcaatgggac cactgaggag 120  
 gtgaagaaga ttgttactac tttaaatgaa gctaaagtcc ctggagaaga tgtttagtaa 180  
 gttgttgtga gccctccttt tgtgttcctt ccttttgtaa aaagtttgct gcgcctgat 240  
 ttccatgtct cggcccaaa 259

<210> 1619  
 <211> 241  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(241)  
 <223> unsure at all n locations  
 <400> 1619

ggtttctctt tctctttctc tgtctgcttc ttcactttct ctcgtttcaa tcgaaaaaaa 60  
 tcatgggcag aaaattcttc gtcgggtggc actggaaatg caatgggacc actgaggagg 120  
 tgaagaagat tggttactact ttaaatagaag ctaaagtccc tggagaagat gttgtagaag 180  
 ttgttgtgag ccttcctttt gtgttcctcc ttttgtaaaa ngtttgctgc gccctgattt 240  
 c 241

<210> 1620  
 <211> 272  
 <212> DNA

<213> Glycine max  
 <400> 1620

tacggctgcg agaagacgac agaaggggac tcgcagttgt attgttgaac aagggtttct 60  
 ctgtctgctt cttcactttc tctcgtttca atcgaaacca aaacaaaaac atgggcagaa 120  
 aattcttcgt cgggtggcaac tggaaatgca atgggaccac tgaggaggta aagaagattg 180  
 ttactacttt gaatgaggct aaagtcctg gagaagatgt cgtagaagtt gttgtgagcc 240  
 ctctttttgt gttccttcct gttgtaaaaa gt 272

<210> 1621  
 <211> 221  
 <212> DNA  
 <213> Glycine max  
 <400> 1621

tgttgaacaa gggtttctct gtctgcttct tcactttctc tcgtttcaat cgaaaccaa 60  
 aaaaaacat gggcagaaaa ttcttcgctg gtggcaactg gaaatgcaat gggaccactg 120  
 aggaggtaaa gaagattggt actactttga atgaggctaa agtccttgga gaagatgtcg 180  
 tagaagttgt tgtgagccct ccttttgtgt tccttcctgt t 221

<210> 1622  
 <211> 266  
 <212> DNA  
 <213> Glycine max  
 <400> 1622

aacggctgcg agaagacgac agaagggggc agttgtattg ttgaacaagg gtttctctgt 60  
 ctgcatcttc gctttctctc gtttcaatcg aaacaaaaac aaaaacatgg gcagaaaatt 120  
 cttcgtcggt ggcaactgga aatgcaatgg gaccactgag gaggtaaaga agattgttac 180  
 tactttgaat gaggctaaag tccctggaga agatgtcgta gaagttgttg tgagccctcc 240  
 ttttgtgttc cttcctgttg taaaaa 266

<210> 1623  
 <211> 260  
 <212> DNA  
 <213> Glycine max

<400> 1623

ggctgcgaga agacgacaga aggggactcg cagttgtatt gttgaacaag ggtttctctg 60

tctgcttctt cactttctct cgtttcaatc gaaacaaaa caaaaacatg ggcagaaaat 120

tcttcgtcgg tggcaactgg aaatgcaatg ggaccactga ggaggtaaag aagattgtta 180

ctactttgaa tgaggctaaa gtccctggag aagatgtcgt agaagttggt gtgagccctc 240

cttttgtggt ccttcctggt 260

<210> 1624

<211> 273

<212> DNA

<213> Glycine max

<400> 1624

gttgaacaag ggtttctctg tctgcttctt cactttctct cgtttcaatc gaaacaaaa 60

caaaaacatg ggcagaaaat tcttcgtcgg tggcaactgg aaatgcaatg ggaccactga 120

ggaggtaaag aagattgtta ctactttgaa tgaggctaaa gtccctggag aagatgtcgt 180

agaagttggt gtgagccctc cttttgtggt ccttcctggt gtaaaaagtt tgctgcgccc 240

tgatttccat gtttcggcac aaaactggtg ggt 273

<210> 1625

<211> 257

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)..(257)

<223> unsure at all n locations

<400> 1625

ctctctcttt ctctgtctgc ttcttcactt tctctcgttt caatcgaaaa aaatcatggg 60

cagaaaattc ttcgtcggtg gcaactgga atgcaatggg accactgagg aggtgaagaa 120

gattgtnact actttaaatg aagctaaagt ccctggagaa gatgtttag aagttgttgt 180

gagccctcct ttgtntcca tccttngtaa aaatttgcng cgcccggant tncatgtcng 240

ggccnaaatt gttgggt 257

<210> 1626  
 <211> 272  
 <212> DNA  
 <213> Glycine max

<400> 1626

cgctgtttcg acggtcacac gcagttgtat tgtagaactg accaagggtt tctctttctc 60  
 tttctctgtc tgcttcttca ctttctctcg tttcaatcga aaaaaatcat gggcagaaaa 120  
 ttcttcgctg gtggcaactg gaaatgcaat gggaccactg atgaggtgaa gaagattggt 180  
 actactttaa atgaagctaa agtccttgga gaagatgttg tagaagttgt tgtgagccct 240  
 ccttttgtgt tccttccttt tgtaaaaagt tt 272

<210> 1627  
 <211> 253  
 <212> DNA  
 <213> Glycine max

<400> 1627

tacggctgcg agaagacgac agaaggggac tcgcagttgc attgttgaac aagggtttct 60  
 ctgtctgctt cttcactttc tctcgtttca atcgaaacca aaacaaaaac atgggcagaa 120  
 aattcttcgt cgggtggcaac tggaaatgca atgggaccac tgaggaggta aagaagattg 180  
 ttactacttt gaatgaggct aaagtccttg gagaagatgt cgtagaagtt gttgtgagcc 240  
 ctctttttgt gtt 253

<210> 1628  
 <211> 148  
 <212> DNA  
 <213> Glycine max

<400> 1628

aaaaacatgg gcagaaaatt cttcgtcggt ggcaactgga aatgcaatgg gaccactgag 60  
 gaggtaaaga agattgttac tactttgaat gaggctaaag tccttgagaga agatgtcgta 120  
 gaagttgttg tgagccctcc ttttgtgt 148

<210> 1629  
 <211> 268  
 <212> DNA  
 <213> Glycine max

<400> 1629

tacggctgcg agaagacgac agaagggggc agttgtattg ttgaacaagg gtttctctgt 60  
ctgcttcttc actttctctc gtttcaatcg aaacccaaac aaaaacatgg gcagaaaatt 120  
cttcgtcggt ggcaactgga aatgcaatgg gaccactgag gaggtaaaga agattgttac 180  
tactttgaat gaggctaaag tccctggaga agatgtcgta gaagttgttg tgagccctcc 240  
ttttgtgttc cttcctgttg taaaaagt 268

<210> 1630

<211> 265

<212> DNA

<213> Glycine max

<400> 1630

acggtcacac gcagttgtat tgtagaactg aacaagggtt tctctttctc tttctctgtc 60  
tgcttcttca ctttctctcg tttcaatcg aaaaaatcat ggcagaaaa ttcttcgtcg 120  
gtggcaactg gaaatgcaat gggaccactg aggaggtgaa gaagattgtt actacttta 180  
atgaagctaa agtccttgga gaagatgttg tagaagttgt tgtgagccct ccttttgtgt 240  
tccttccttt tgtaaaaagt ttgct 265

<210> 1631

<211> 274

<212> DNA

<213> Glycine max

<400> 1631

gtagaactga acaagggttt ctctttctct' ttctctgtct gcttcttcac tttctctcgt 60  
ttcaatcgaa aaaaatcatg ggcagaaaat tcttcgtcgg tggcaactgg aaatgcaatg 120  
ggaccactga ggaggtgaag aagattgtta ctactttaaa tgaagctaaa gtccctggag 180  
aagatgttgt agaagttgtt gtgagccctc cttttgtgtt ccttcctttt gtaaaaagtt 240  
tgctgcgcgc tgatttccat gtctcgcccc aaaa 274

<210> 1632

<211> 255

<212> DNA

<213> Glycine max





<210> 1635  
 <211> 254  
 <212> DNA  
 <213> Glycine max

<400> 1635

gggtttctct ttctctttct ctgactgctt cttcactttc tctcgttgca atcgaaaaaa 60  
 atcatgggca gaaaattctt cgctcgggtggc aactggaaat gcaatgggac cactgaggag 120  
 gtgaagcaga ttgttactac tttaaatgaa gctaaagtcc ctggagaaga tggtttagac 180  
 gttgttgtga gccctccttt tgtgttcctt ccttttgtaa aaagtttgct gcgccctgat 240  
 ttccatgtct cgga 254

<210> 1636  
 <211> 234  
 <212> DNA  
 <213> Glycine max

<400> 1636

tacggctgcg agaagacgac agaagggggc agttgtattg ttgaacaagg gtttctctgt 60  
 ctgcttcttc actttctctc gtttcaatcg aaaccaaacc aaaaacatgg gcagaaaatt 120  
 cttcgtcggg ggcaactgga aatgcaatgg gaccactgag gaggtaaaga agattgttac 180  
 tactttgaat gaggctaaag tccctggaga agatgtcgta gaagttgttg tgag 234

<210> 1637  
 <211> 193  
 <212> DNA  
 <213> Glycine max

<400> 1637

gtttctcttt ctctttctct gtctgcttct tcactttctc tcgtttcaat cgaaaaaaat 60  
 catgggcaga aaattcttcg tcggtggcaa ctggaaatgc aatgggacca ctgaggaggt 120  
 gaagaagatt gttactactt taaatgaagc taaagtcctt ggagaagatg ccgtagaagt 180  
 tggttgtagc cct 193

<210> 1638  
 <211> 300  
 <212> DNA

<213> Glycine max  
 <220>  
 <221> unsure  
 <222> (1)..(300)  
 <223> unsure at all n locations  
 <400> 1638  
 acggctgcga gaagacgaca gaaggggaca cgcagttgta ttgtagaact gaacaagggt 60  
 ttctctttct ctttctctgt ctgcttcttc actttctctc gtttcaatcg aaaaaaatca 120  
 tgggcagaaa attcttcgtc ggtggcaact ggaaatgcaa tgggaccact gaggagggtga 180  
 agaagattgt tactacttta aatgaagcta nagtccttgg agaagatggt gtagaagttg 240  
 ttgtgagcct ctttttgtgt tcttcctttt gtaaaaattg ctgcgcctga ttccagtctc 300  
 <210> 1639  
 <211> 240  
 <212> DNA  
 <213> Glycine max  
 <400> 1639  
 aggctgtatt gtagaactga acaagggttt ctctttctct ttctctgtct gcttcttcac 60  
 tttctctcgt ttcaatcgaa aaaaatcatg ggcagaaaat tcttcgtcgg tggcaactgg 120  
 aaatgcaatg ggaccactga ggagggtgaag aagattgtta ctactttaaa tgaagctaaa 180  
 gtccttgagg aagatgttgt agaagttggt gtgagcctcc ttttgtgttc cttcttttgt 240  
 <210> 1640  
 <211> 278  
 <212> DNA  
 <213> Glycine max  
 <220>  
 <221> unsure  
 <222> (1)..(278)  
 <223> unsure at all n locations  
 <400> 1640  
 ctgaacaagg gtttctcttt ctctttctct gtctgcctct tcactttctc tcgtttcaat 60  
 cgaaaaaatc atgggcagaa aattcttccg tcggtggcaa ctggaaatgc aatgggacca 120  
 ctgaggaggt gaagaagatt gttatacttt aaatgaagct aaagtccttg gagaagatgt 180

tgtagaagtt gttgtgagcc ctcttttgt gttccttcct ttgtaaaaag ttngctgcgc 240  
 cctgatttcc atgtctcggc ccaaaattgt tgggttcg 278

<210> 1641  
 <211> 263  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(263)  
 <223> unsure at all n locations

<400> 1641

gttgaacaag ggtttctctg tctgcttctt cactttctct cgtttcaatc gaaaccaaaa 60  
 caaaaacatg ggcagaaaat tattcgtcgg tggnaactgg aaatgcnatg ggacnactga 120  
 ggaggtaaag aagattgtta ctactttgna tgaggcnaaa gtccctggag angatgtcgt 180  
 agaagttggt ntgaggcctc cttttgtggt ncttcnccgt tgtaaaaagt ttgctgcgcc 240  
 ctgatttcca tgtttcggca caa 263

<210> 1642  
 <211> 238  
 <212> DNA  
 <213> Glycine max

<400> 1642

aacaaggggt tctctgtctg cttcttcact ttctctcgtt tcaatcgaaa ccaaaacaaa 60  
 aacatgggca gaaaattctt cgtcgggtggc aactggaaat gcaatgggac cactgaggag 120  
 gtaaagaaga ttgttactac tttgaatgag gctaaagtcc ctggagaaga tgtcgtagaa 180  
 gttgtttgtga gccctccttt tgtgttcctt cctgtttgtaa aaagtttgct gcgccctg 238

<210> 1643  
 <211> 266  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(266)  
 <223> unsure at all n locations

<400> 1643

gttgaacnag ggtttctctn tctgcttctt cactttctct cgttnccaat cgaaaccaa 60  
acaaaatcat gggcagaaaa ttcttcgttg gtggcaactg gaaatgcaat gggaccactg 120  
angaggtaaa gnagattggt actactttga atgaggctaa agtccctgga gaagatgtcg 180  
tagaagttgt tgtgagccct cctttgtgtt ccttcctgtt gtaaaaagtt tgctgcgccc 240  
tgatttccat gtttcggcan anactg 266

<210> 1644

<211> 256

<212> DNA

<213> Glycine max

<400> 1644

gttgaacaag ggtttctctg tctgcttctt cactttctct cgtttcaatc gaaacaaaa 60  
caaaatcatg ggcagaaaat tcttcgttgg tggcaactgg aaatgcaatg ggaccactga 120  
ggaggtaaag aagattgtta ctactttgaa tgaggctaaa gtccttgagg aagatgtcgt 180  
agaagttggt gtgagcctcc ttttgtgttc cttcctgttg taaaaagttt gctgcgccc 240  
gatttccatg tttcgg 256

<210> 1645

<211> 250

<212> DNA

<213> Glycine max

<400> 1645

ctacagctgg ggactcgcag ttgtattggt gaacaagggt ttctctgtct gcttcttcac 60  
tttctctcgt ttcaatcgaa accaaaacaa aaacatgggc agaaaattct tcgtctgtgg 120  
caactggaaa tgcaatggga ccaactgagga ggtaaagaag attgttacta ctttgaatga 180  
ggctaaagtc cctggagaag atgtcgtaga agttgttgtg agccctcttt tgtgttcctc 240  
ctgttgtaaa 250

<210> 1646

<211> 264

<212> DNA

<213> Glycine max

<400> 1646

acggctgcga gaagacgaca gaaggggact cgcagttgta ttgttgaaca aggggttctc 60

tgtctgcttc ttcactttct ctcgtttcaa tcgaaaccaa acaaaaaaca tgggcagaaa 120

attcttcgtc ggtggcaact ggaaatgcaa tgggaccact gaggaggtaa agaagattgt 180

tactactttg aatgaggcta aagtcctgga agaagatgtc gtagaagttg ttgtgagccc 240

tccttttggtg ttccttctctg ttgt 264

<210> 1647

<211> 267

<212> DNA

<213> Glycine max

<400> 1647

gtagtactga tcaaggggtgt ctgtttctat gtctctgtgt gtttcgtcac tttctctcgt 60

ttcaatcgaa aaagatcatg ggtagaagat tagtcgtcgg tggcaactgg aaatgcaatg 120

ggaccactga ggaggtgaag aagattgtta ctactttaaa tgaggctaaa gtccctggag 180

aagatgttgt tgaagttggt gtgagccgcc ttttgtgttc ctcttttgt agaggtttgc 240

tgcgccctgga tttccatgtc tcggccc 267

<210> 1648

<211> 238

<212> DNA

<213> Glycine max

<400> 1648

gtagaactga acaaggggtt ctctttctct tttctctgtct gttcttccac tttctctcgt 60

ttcaatcgaa aaaaatcatg ggcagaaaat ttttcgtcgg tggcaactgg aaatgcaatg 120

ggaccactga ggaggtgaag aagattgtta ctactttaaa tgaagctaaa gtccctggag 180

aagatgttgt agaagttggt gtgagccctc ttttgtgttc cttcttttgt aaaaagtt 238

<210> 1649

<211> 273

<212> DNA

<213> Glycine max

<400> 1649

gaacaagggt ttctctttct ctttctctgt ctgcttcttc actttctctc gtttcaatcg 60  
 aaaaaaatca tgggcagaaa attcttcgtc ggtggcaact ggaaatgcaa tgggaccact 120  
 gaggaggtga agcagattgt tactacttta aatgaagcta cagtccttgg agaagatgtt 180  
 gtagaagttg ttgtgagccc tccttttgtg ttccttcctt ttgtaaaaag tttgctgcgc 240  
 cctgatttcc atgtctcggc ccaaaattgt tgg 273

<210> 1650  
 <211> 240  
 <212> DNA  
 <213> Glycine max

<400> 1650

acggctgcga gaagacgaca gaaggggact cgcagttgta ttgttgaaca agggtttctc 60  
 tgtctgcttc ttcactttct ctcgtttcaa tcgaaaccaa aacaaaaaca tgggcagaaa 120  
 attcttcgtc ggtggcaact ggaaatgcaa tgggaccact gaggaggtta agaagattgt 180  
 tactactttg aatgaggcta aagtccttgg aagagatgtc gtagaagttg ttgtgagccc 240

<210> 1651  
 <211> 252  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(252)  
 <223> unsure at all n locations

<400> 1651

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 acaagggttt ctctgtctgc ttcttcactt tctctcgttt caatcgaaac caaaacaaaa 120  
 acatgggcag aaaattcttc gtcggtggca actggaaatg caatgggacc actgaggagg 180  
 taaagaagat tggtactact ttgaatgagg ctaaagtccc ggagaagatg tcgtagaagt 240  
 tgttgtgagc cc 252

<210> 1652  
 <211> 274  
 <212> DNA  
 <213> Glycine max

<400> 1652

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ttcaatcgaa aaaaatcatg ggcagaaaat tcttcgtcgg tggcaactgg aaatgcaatg 120  
ggaccactga ggaggtgaag aagattgtta ctactttaaa tgaagctaaa gccctggag 180  
aagatgttgt agaagttgtt gtgagccctc cttttgtgtt cttcctttt gtaaaaagtt 240  
tgctgcgcgc tgatttccat gtctcgccc aaaa 274

<210> 1653

<211> 185

<212> DNA

<213> Glycine max

<400> 1653

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caaatcatg ggcagaaaat tcttcgttgg tggcaactgg aaatgcaatg ggaccactga 120  
ggaggttaaag aagattgtta ctactttgaa tgaggctaaa gtcctggag aagatgtcgt 180  
agaag 185

<210> 1654

<211> 215

<212> DNA

<213> Glycine max

<400> 1654

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tggcaactgg aaatgcaatg ggaccactga ggaggtgaag aagattgtta ctactttaaa 120  
tgaagcgtaa gtcgctggag gagaatgtgt agaagtgggt gtgagcctcc tttttgtgtc 180  
cttccttttt taaaaaattt gctggggcct gattt 215

<210> 1655

<211> 266

<212> DNA

<213> Glycine max

<400> 1655

gaggaaactg caaagaattg gcagcacagc ccgatgttga tggatttttg gttggtggtg 60



catccctcaa ggcggaatth gtggacatca taaacgctgc tactgtgaag aagaattgaa 120  
 attcgtagtt aggaactgat aatgctgcct ttcaagctgc ttcggaatt gctgtttttg 180  
 agttttgggt ctgtgctttg tggccaatgt attgaactct gtttagtacc tgaataaaca 240  
 tgctttcctt tgatctcatc catagg 266

<210> 1656  
 <211> 248  
 <212> DNA  
 <213> Glycine max

<400> 1656

cgaaactgca aagaattggc agcacagccc gatgttgatg gatttttggt tgggtggtgca 60  
 tccctcaagg cggaatttgt ggacatcata aacgctgcta ctgtgaagaa gaattgaaat 120  
 tcgtagtttag gaactgataa tgctgccttt caagctgctt cggaattgc tgtttttgag 180  
 ttttggttct gtgctttgtg gccaatgtat tgaactctgt ttagtacctg aataaacatg 240  
 ctttcctt 248

<210> 1657  
 <211> 254  
 <212> DNA  
 <213> Glycine max

<400> 1657

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 gcggaatttg tggacatcat aaacgctgct actgtgaaga agaattgaaa ttcgtagtta 120  
 ggaactgata tgctgccttt caagctgctt cggaattgc tgtttttgag ttttggttct 180  
 gtgctttgtg gccaatgtat tgaactctgt ttagtacctg aataaacatg ctttcctttg 240  
 atctcatcca tagg 254

<210> 1658  
 <211> 225  
 <212> DNA  
 <213> Glycine max

<400> 1658

aaagaattgg cagcacagcc cgatgttgat ggatttttgg ttggtggtgc atccctcaag 60

gcggaatttg tggacatcat aaacgctgct actgtgaaga agaattgaaa ttcgtagtta 120  
 ggaactgata atgctgcctt tcaagctgct tcggaaattg ctgtttttga gttttggttc 180  
 tgtgctttgt ggccaatgta ttgaactctg tttagtagct gaata 225

<210> 1659  
 <211> 258  
 <212> DNA  
 <213> Glycine max

<400> 1659

aaagaattgg cagcacagcc cgatgttgat ggatttttgg ttggtggtgc atcactcaag 60  
 gcggaatttg tggacatcat aaacgctgct actgtgaaga agaattgaaa ttcgtagtta 120  
 ggaactgata atctgccttt caagctgctt cggaaattgc tgtttttgag ttttggttct 180  
 gtgctttgtg gccaatgtat tgaactctgt ttagtagctg aataaacatg ctttcctttg 240  
 atctcatcca taggcgat 258

<210> 1660  
 <211> 145  
 <212> DNA  
 <213> Glycine max

<400> 1660

gaaaattctt cgtcggtggc aactggaaat gcaatgggac cactgaggag gtaaagaaga 60  
 ttgttactac tttgaatgag gctaaagtcc ctggagaaga tgtcgtagaa gttgttgtga 120  
 gccctccttt tgtgttctt cctgt 145

<210> 1661  
 <211> 180  
 <212> DNA  
 <213> Glycine max

<400> 1661

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 aaacatgggc agaaaattct tcgtcgggtg caactggaaa tgcaatggga ccactgagga 120  
 ggtaaagaag attgttacta ctttgaatga ggctaaagtc cctggagaag atgtcgtaga 180

<210> 1662  
 <211> 98  
 <212> DNA  
 <213> Glycine max  
  
 <400> 1662  
  
 ttgttttggc ctacgagcca gtttgggcca ttggaacagg aaaggttgct actcctgctc 60  
 aggctcaaga ggggtccatgc tgatttgagg aaatgggt 98  
  
 <210> 1663  
 <211> 147  
 <212> DNA  
 <213> Glycine max  
  
 <400> 1663  
  
 gctcgagggt tctctttctc tttctctgtc tgctttcttca ctttctctcg tttcaatcga 60  
 aaaaaatcat gggcagaaaa ttcttcgtcg gtggcaactg gaaatgcaat gggaccactg 120  
 aggaggtgaa gaagattggt actactt 147  
  
 <210> 1664  
 <211> 265  
 <212> DNA  
 <213> Glycine max  
  
 <220>  
 <221> unsure  
 <222> (1)..(265)  
 <223> unsure at all n locations  
  
 <400> 1664  
  
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 catgggcaga aaattctcgt cgggtggcaac tggaaatgca atgggaccac tgaggagggtg 120  
 aagaagattg tngnnactta aattgaagcc naaatccct tggggaaatg ttgtagannt 180  
 tgttgtgagc cctccttttg tgttccttcc tntgtaaaaa gtttgctgcg ccttgattnc 240  
 cagtctcggg ccanaaatgg tggng 265  
  
 <210> 1665  
 <211> 162  
 <212> DNA  
 <213> Glycine max

<400> 1665  
aactgaacaa gggtttctct ttctcttct ctgtctgctt cttcactttc tctcgtttca 60  
atcgaaaaaa atcatgggca gaaaattctt cgtcgggtggc aactggaaat gcaatgggac 120  
cactgaggag gtgaagaaga ttgttactac tttaaataa gc 162

<210> 1666  
<211> 150  
<212> DNA  
<213> Glycine max

<400> 1666  
cgaacaaggg tttctctttc tctttctctg tctgcttctt cactttctct cgtttcaatc 60  
gaaaaaaatc atgggcagaa aattcttctg cggtggcaac tggaaatgca atgggaccac 120  
tgaggaggtg aagaagattg ttactacttt 150

<210> 1667  
<211> 263  
<212> DNA  
<213> Glycine max

<400> 1667  
caaagataat tcttacagat gcagcacagc ccgatgttga tggatttttg gttggtggtg 60  
catccctcaa ggcggaattt gtggacatca taaacgctga tactgtgaag aagaattgaa 120  
attcgtagtt aggaactgat aatgctgcct ttcaagctgc ttcggaaatt gctgtttttg 180  
agttttgggt ctgtgctttg tggccaatgt attgaactct gttagtacc tgaataaaca 240  
tgctttcctt tgatctcatc cat 263

<210> 1668  
<211> 247  
<212> DNA  
<213> Glycine max

<400> 1668  
aaagaattgg aagcacagcc cgatgttgat ggatttttgg ctggtggtgc atccctcaag 60  
gcggaatttg tggacatcat aaacgctgct actgtgaaga agaattgaaa ttcgtagtta 120  
ggaactgata atgctgcctt tcaagctgct tcggaaattg ctgtttttga gttttggttc 180

tgtgctttgt ggccaatgta ttgaactctg tttagtacct gaataaacat gctttccttt 240  
gatctca 247

<210> 1669  
<211> 195  
<212> DNA  
<213> Glycine max

<400> 1669

tacggctgcg agaagacgac agaaggggac acgcagttgt attgtagaac tgaacaaggg 60  
tttctctttc tctttctctg tctgcttctt cactttctct cgtttcaatc gaaaaaaatc 120  
atgggcagaa aattcttcgt cggtaggcaac tggaaatgca atgggaccac tgaggaggtg 180  
aagaagattg ttact 195

<210> 1670  
<211> 271  
<212> DNA  
<213> Glycine max

<220>  
<221> unsure  
<222> (1)..(271)  
<223> unsure at all n locations

<400> 1670

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cttgggggtga ttgcatgcat tggagacttg ttagaagaaa gggaggctgg aaaaactact 120  
gatgtttgtn ttcagcaatt gaaggcttat gcagacgcag ttgctagttg ggacaacatt 180  
gttattgcat atgaacctgt atgggccatt ggaacgggca aagtcgccac tccccaacaa 240  
gctcaggaag tacatgtagc tgttcgggat t 271

<210> 1671  
<211> 322  
<212> DNA  
<213> Glycine max

<400> 1671

cttcgatggc ggcaacctca acatcaactg cttctcaact ctacattggc ctgcgccgcc 60  
cctgcctcaa gctcgattct ttcaattctc aatctttctc tctcttcgac cctaattctc 120

gcctatccct ctctccaccc aaaccctcac gcgccgtcat cgccatggcc ggcaccggga 180  
 agttctttgt tgggtggcaac tggaagtgtg acggaacaaa agactcaatc agcaagcttg 240  
 ttgctgactt gaacaatgca aaattggagc ctgatgttga tgttgtcggt gcacctccct 300  
 tcctctacat cgatcaagtg aa 322

<210> 1672  
 <211> 249  
 <212> DNA  
 <213> Glycine max

<400> 1672

gcaacctcaa catcactggc ttctcaactc tacattggcc tgcgccgccc ctgcctcaag 60  
 ctogattctt tcaattctca atctttctct ctcttcgacc ctaatcttcg cctatccctc 120  
 tctccaccca aaccctcacg cgccgtcatc gccatggccg gcaccgggaa gttctttgtt 180  
 ggtggcaact ggaagtgtaa cggaacaaaa gactcaatca gcaagcttgt tgctgacttg 240  
 aacaatgca 249

<210> 1673  
 <211> 257  
 <212> DNA  
 <213> Glycine max

<400> 1673

ggcaacctca acatcactgg cttctcaact ctacattggc ctgcgccgcc cctgcctcaa 60  
 gctogattct ttcaattctc aatctttctc tctcttcgac cctaattctc gcctatecct 120  
 ctctccaccc aaaccctcac gcgccgtcat cgccatggcc ggcaccggga agttctttgt 180  
 tgggtggcaac tggaagtgtg acggaacaaa agactcaatc agcaagcttg ttgctgactt 240  
 gaacaatgca aaattgg 257

<210> 1674  
 <211> 275  
 <212> DNA  
 <213> Glycine max

<400> 1674

gtttttgttc ttcgatggcg gcaacctcaa catcactggc ttctcaactc tacattggcc 60

tgcgcgcgcc ctgcctcaag ctcgattctt tcaattctca atctttctct ctcttcgacc 120  
 ctaatcttcg cctatccctc tctccacca aaccctcacg cgccgtcatc gccatggccg 180  
 gcaccgggaa gttctttggt ggtggcaact ggaagtgtaa cggaacaaa agactcaatc 240  
 agcaagcttg ttgctgactt gaacaatga aaatt 275

<210> 1675  
 <211> 287  
 <212> DNA  
 <213> Glycine max  
 <400> 1675

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 tacattggcc tgcgcgcgcc ctgcctcaag ctcgattctt tcaattctca atctttctct 120  
 ctcttcgacc ctaatcttcg cctatccctc tctccacca aaccctcacg cgccgtcatc 180  
 gccatggccg gcaccgggaa gttctttggt ggtggcaact ggaagtgtaa cggaacaaaa 240  
 gactcaatca gcaagcttgt tgctgacttg aacaatgcaa aattgga 287

<210> 1676  
 <211> 272  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(272)  
 <223> unsure at all n locations  
 <400> 1676

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 tgcctcaage tgcattcttt caattctcaa tctttctctc tcttcgaccc taatcttcgc 120  
 cnatccctct ctccacccaa accctcacna caccgtcatc gccatggccg gcaccgggaa 180  
 gttctttggt ggtggcaact ggaagtgtaa cggaacaaaa gactcaatca gcaancttgt 240  
 tgctgacttg aacaatgcaa aattggagcc tg 272

<210> 1677  
 <211> 287  
 <212> DNA

<213> Glycine max  
 <220>  
 <221> unsure  
 <222> (1)..(287)  
 <223> unsure at all n locations  
 <400> 1677  
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 tacattggcc tgcgcgccc ctgcctcaag ctcgattctt tcaattctca atctttcnct 120  
 ctcttcgacc ctaatcttcg cctatccctc tctccaccca aaccctcacg cgccgtcatc 180  
 gccatggcgc gcaccgggaa gttctttgtt ggtggcaact ggaagtgtaa cgnaacaaaa 240  
 gactcaatca gcaagcttgt tgctgacttg aacaatgcaa aattgga 287

<210> 1678  
 <211> 274  
 <212> DNA  
 <213> Glycine max  
 <400> 1678  
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 ctgcgcgccc cctgcctcaa gctcgattct ttcaattctc aatctttctc tctcttcgac 120  
 cctaattctc gcctatccct ctctccacc aaaccctcac gcgcggtcat cgccatggcc 180  
 ggcaccggga agttctttgt tgggtggcaac tggaagtgt acggaacaaa agactcaatc 240  
 agcaagcttg ttgctgcttg acatgcaa at ggag 274

<210> 1679  
 <211> 247  
 <212> DNA  
 <213> Glycine max  
 <220>  
 <221> unsure  
 <222> (1)..(247)  
 <223> unsure at all n locations  
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 tacattggcc tgcgcgccc ctgtctcaag ctcgattctt tcaattctca atctttctct 120



ctcttcgacc ctaatcttcg cctatccctc tctccacca aaccctcacg cgccgtcatc 180  
gccatggccg gcaccgggaa gttctttgtt ggtggcaatg gaagtgtaac gcaacaaaag 240  
actcaat 247

<210> 1680  
<211> 241  
<212> DNA  
<213> Glycine max

<400> 1680

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ttggcctgcg ccgcccctgc ctcaagctcg attctttcaa ttctcaatct ttctctctct 120  
tcgaccctaa tcttcgccta tccctctctc caccctaaacc ctcacgcgcc gtcacgcgca 180  
tggccggcac cgggaagttc tttgttggtg gcaactggaa gtgtaaggaa caaaagactc 240  
a 241

<210> 1681  
<211> 253  
<212> DNA  
<213> Glycine max

<400> 1681

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ctctgttcga ccctaattct cgcctatccc tctctccacc caaacctca cgcgccgtca 180  
tcgccatggc cggcaccggg aagttctttg ttggtggcaa ctggaagtgt aacgaaacaa 240  
aagactcaat cag 253

<210> 1682  
<211> 240  
<212> DNA  
<213> Glycine max

<400> 1682

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ttggcctgcg ccgcccctgc ctcaagctcg attctttcaa ttctcaatct ttctctctct 120

tcgaccctaa cttegcctat ccctctctcc acccaaacc tcacgcgcgc tcatcgccat 180  
ggccggcacc gggaagttct ttgttggtgg caactggaag tgtaaggaa aaaagactca 240

<210> 1683  
<211> 240  
<212> DNA  
<213> Glycine max

<400> 1683

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cattggcctg cgccgccctt gcctcaagct cgattctttc aattctcaat ctttctctct 120  
cttcgaccct aatcttcgcc tatccctctc tccacccaaa ccctcacgcg ccgtcatcgc 180  
catggccggc accgggaagt tctttgttgg tggcaactgg aagtgtaacg gaacaaaaga 240

<210> 1684  
<211> 198  
<212> DNA  
<213> Glycine max

<400> 1684

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tgtacatcga tcaggtgaaa aactcaatta cagataggat tgaaatttct gcccagaatt 120  
cttgggtggg aaaaggtggg gctttcacgg gagaaatcag tgtggagcaa ctaaaagacc 180  
ttggctgcaa gtgggtta 198

<210> 1685  
<211> 282  
<212> DNA  
<213> Glycine max

<400> 1685

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aacaacatca acatcagact ccaactgttg acctcccttt gtgtacatcg atcaggtgaa 120  
aaactcaatt acagatagga ttgaacttct gcccagaatt cttgggtggg aaaaggtggg 180  
gctttcacgg gagaaatcag attggagcaa ctaaaagacc ttggctgcaa gtgggttatt 240  
cttggacatt ctgagcgag acatgtaatt ggagcaaattg at 282

<210> 1686  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<400> 1686

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gattgttact actttaaatg aagctaaagt ccctggagaa gatgttgtag aagttgttgt 180
gagccctcct tttgtgttcc ttccttttgt aaaaagtttg ctgcgccctg atttccatgt 240
ctcggcccaa aattgttggg ttcgcaaagg tgggtgcttat actggagagg ttagtgctga 300
aatgcttggt aatttgggaa ttccttgggt tattattggt cactctgaac ggaggcagct 360
tttgaatgaa tcaaattg 377
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<210> 1687  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<400> 1687

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gggcagaaaa ttcttcgtcg gtggcaactg gaaatgcaat gggaccactg aggaggtgaa 180
gaagattggt actactttaa atgaagctaa agtccttgga gaagatgttg tagaagttgt 240
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tgtctcggcc caaaattggt gggttcgcaa aggtggtgct tatactggag aggttagtgc 360
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gctttt 426
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<210> 1688  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure

<222> (1)..(405)  
 <223> unsure at all n locations  
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 cgtgaagctg gtacaacaac ggctgttgtt tctgagcaaa caaaagcaat tgcagctaaa 180  
 atatcaaatt gggacaatgt tgttttggcc tacgagccag tttgggcat tggaacagga 240  
 aaggttgcta ctctgctca ggctcaagag gtccatgctg atttgaggaa atgggttcat 300  
 gacaatgtga gtgccgaagt tgctgcatct gtaagaatta tctatggagg ttctgtaaat 360  
 ggaaganact gcaaaaaatt ggccgcacag cccgatgttg atgga 405

<210> 1689  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<400> 1689  
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 gcaactggaa atgcaatggg accactgagg aggtgaagaa gattgttact actttaaatg 180  
 aagctaaagt ccctggagaa gatgtttag aagttgttgt gagccctcct tttgtgttcc 240  
 ttccttttgt aaaaagtttg ctgcgccctg atttccatgt ctcgcccaa aattgttggg 300  
 ttcgcaaagg tggtgcttat actggagagg ttagtgctga aatgcttgtt aatttgggaa 360  
 ttccttgggt tattattggt cactctg 387

<210> 1690  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<400> 1690  
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 gttgaacaag ggtttctctg tctgcttctt cactttctct cgtttcaatc gaaacaaaaa 120  
 caaaaacatg ggcagaaaat tcttcgtcgg tggcaactgg aaatgcaatg ggaccactga 180

ggagggtaaag aagattgtta ctactttgaa tgaggctaaa gtccctggag aagatgtcgt 240  
agaagttggt gtgagccctc cttttgtggt ccttcctggt gtaaaaagtt tgctgcgccc 300  
tgatttccat gtttcggcac aaaactggtg ggttcgcaaa ggtggtgctt ataccggtga 360  
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<210> 1691  
<211> 400  
<212> DNA  
<213> Glycine max

<400> 1691

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tcttcgtcgg tggcaactgg aaatgcaatg ggaccactga ggaggtaaag aagattgtta 180  
ctactttgaa tgaggctaaa gtccctggag aagatgtcgt agaagttggt gtgagccctc 240  
cttttgtggt ccttcctggt gtaaaaagtt tgctgcgccc tgatttccat gtttcggcac 300  
aaaactggtg ggttcgcaaa ggtggtgctt ataccggtga ggttagtgtc gaaatgcttg 360  
ttaatttggg gattcccttg gggataatg gtcactctga 400

<210> 1692  
<211> 367  
<212> DNA  
<213> Glycine max

<400> 1692

ccggctcgac ccacgagtaa gcccacgcgt ccgacggctg cgagaagacg acagaagggg 60  
attgtagaac tgaacaaggg tttctctttc tctttctctg tctgcttctt cactttctct 120  
cgtttcaatc gaaaaaaatc atgggcagaa aattcttcgt cggtaggcaac tggaaatgca 180  
atgggaccac tgaggaggtg aagaagattg ttactacttt aaatgaagct aaagtccttg 240  
gagaagatgt tgtagaagtt gttgtgagcc ctcttttgt gttccttcct tttgtaaaaa 300  
gtttgctgcg ccctgatttc catgtctcgg cccaaaattg ttgggttcgc aaaggtggtg 360  
cttatac 367

<210> 1693  
 <211> 371  
 <212> DNA  
 <213> Glycine max

<400> 1693

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agacggctgc gagaagacga cagaaggggg cagttgtatt gttgaacaag ggtttctctg 60
tctgcttctt cactttctct cgtttcaatc gaaacccaaa caaaaacatg ggcagaaaat 120
tcttcgtcgg tggcaactgg aaatgcaatg ggaccactga ggaggtaaag aagattgtta 180
ctactttgaa tgaggctaaa gtccctggag aagatgtcgt agaagttggt gtgagccctc 240
cttttggtgt ccttcctggt gtaaaaagtt tgctgcgccc tgatttccat gtttcggcac 300
aaaactgttg ggttcgcaaa ggtggtgctt ataccggtga ggtagtgct gaaatgcttg 360
ttaatttggg a 371
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<210> 1694  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<400> 1694

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acgcccacgc gtccgtacgg ctgcgagaag acgacagaag gggattgtag aactgaacaa 60
ggggtttctt ttctctttct ctgtctgctt cttcactttc tctcgtttca atcgaaaaaa 120
atcatgggca gaaaattctt cgtcgggtggc aactggaaat gcaatgggac cactgaggag 180
gtgaagaaga ttgttactac tttaaatgaa gctaaagtcc ctggagaaga tgttgtagaa 240
gttggttgta gccctccttt tgtgttcctt ctttttgtaa aaagtttgct gcgccctgat 300
ttccatgtct cggcccaaaa ttgttgggtt cgcaaagggtg gtgcttatac tggagaagtt 360
agtgtgaaa tgcttgtaa tttggga 387
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<210> 1695  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(384)  
 <223> unsure at all n locations

<400> 1695

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gaacaagggt ttctctttct cttctctctgt ctgcttcttc actttctctc gtttcaatcg 120

aaaaaaatca tgggcagaaa attcttcgtc ggtggcaact ggaaatgcaa tgggaccact 180

gaggaggtga agaagattgt tactacttta aatgaagcta aagtccttg agaagatgtt 240

gtanaagttg ttgtgagccc tccttttgtg ttccttcctt ttgtaaaaag tttgctgcgc 300

cctgatttcc atgtctcggc ccaaaattgt tgggttcgca aaggtggtgc ttatactgga 360

gaagttagtg ctgaaatgct tggt 384

<210> 1696

<211> 265

<212> DNA

<213> Glycine max

<400> 1696

gataaagttg cctatgcact tcaacaaggc ctaaaagtta ttgcatgcat tggggagact 60

ctcgaacagc gtgaagctgg tacaacaacg gctgttgttt ctgagcaaac aaaagcaatt 120

gcagctaaaa tatcaaattg ggacaatgtc gttttggcct acgagccagt ttgggccatt 180

ggaacaggaa aggttgctac tcctgctcag gctcaagagg tccatgctga tttgaggaaa 240

tgggttcatg acaatgtgag tgctg 265

<210> 1697

<211> 421

<212> DNA

<213> Glycine max

<400> 1697

gttcgcaaag gtggtgctta tactggagag gttagtgtg gaatgcttgt taattgggga 60

attccttggg ttattattgg tcaactctgaa cggaggcagc ttttgaatga atcaaagag 120

tttgtgggag ataaagttgc ctatgcactt caacaaggct tgaaagttat agcatgcatt 180

ggggaaactc ttgaacagcg tgaagctggt acaacaacgg ctgttggtgc tgagcaaaca 240

aaagcaattg cagctaaaat atcaaattgg gacaatgtcg ttttggccta tgagccagtt 300

tggggcattg gaacaggaaa ggttgcaact cctgctcatg ctcaagaggt tcatgctgat 360

ttaaggaaat gggttcatga caatgtgagt gctgaagttg ctgcatctgt aagaattatc 420

t 421

<210> 1698

<211> 325

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)..(325)

<223> unsure at all n locations

<400> 1698

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tgaacaaggg tttctctgtc tgcttcttca ctttctctcg tttcaatcga aaccaaaca 120

aaaacatggg cagaaaattc ttcgtcgggtg gcaactggaa atgcaatggg accactgang 180

aggtaaagaa gattgttact actttgaatg aggctaaagt ccctggagaa gatgtcgtag 240

aagttgttgt gagccctcct tttgtgttcc ttctgtcgt aaaaagtttg ctgcgccctg 300

atttccatgt ttcggcaca aactg 325

<210> 1699

<211> 393

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)..(393)

<223> unsure at all n locations

<400> 1699

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cctcaacttc cccccgttcc aaccaaacc aaacaaaat catgggcaaa aaatcctccg 120

ccggtggcaa ctggaaatgc aatgggacca ctgaagaggt aaagaaaatt gttactactt 180

tgaatgacgc taaagtcctt ggagaagatg tcgtagaagt tgttgtgagc cctccttttg 240

tgttccttcc tgttgtanaa agtttgctgc gccctgattc ccatgtttcg gcacaaaact 300

gttgggttcg caaaagtggg gottataccg gtgaggttag tgctgaaatg cttgttaatt 360



tggggaattcc ttggggttatt attggtcact ctg 393

<210> 1700  
 <211> 300  
 <212> DNA  
 <213> Glycine max

<400> 1700

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 aattcttcgt cgggtggcaac tggaaatgca atgggaccac tggggaggta aagaagattg 180  
 ttactacttt gaatgaggct aaagtccttg gagaagatgt cgtacaagtt gttgtgagcc 240  
 ctctttttgt gttccttcct gttgtaaaaa gtttgctgcg ccttgatttc catgtttcgg 300

<210> 1701  
 <211> 234  
 <212> DNA  
 <213> Glycine max

<400> 1701

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 aattcttcgt cgggtggcaac tggaaatgca atgggaccac tgaggagggtg aagaagattg 180  
 ttactacttt aaatgaagct aaagtccttg gagaagatgt tgtacaagtt gttg 234

<210> 1702  
 <211> 342  
 <212> DNA  
 <213> Glycine max

<400> 1702

cccacgcgtc cgtacggctg cgagaagacg acagaagggg ggtcacacgc agttgtattg 60  
 tagaactgaa caagggtttc tctttctctt tctctgtctg cttcttcact ttctctcggt 120  
 tcaatcgaaa aaaatcatgg gcagaaaatt cttcgtcggt ggcaactgga aatgcaatgg 180  
 gaccactgag gaggtgaaga agattgttac tactttaaat gaagctaaag tccctggaga 240  
 agatgttgta gaagttggtg tgagccctcc ttttgtgttc cttccttttg taaaaagttt 300

gctgcgcctt gatttccatg tctccggcca aaattgttgg gt 342

<210> 1703  
 <211> 354  
 <212> DNA  
 <213> Glycine max

<400> 1703

ctcgagccga atcggtctga gtgttgaaca agggtttctc tgtctgcttc ttcactttct 60  
 ctcgtttcaa tcgaaaccaa aacaaaaaca tgggcagaaa attcttcgtc ggtggcaact 120  
 ggaaatgcaa tgggaccact gaggaggtaa agaagattgt tactactttg aatgaggcta 180  
 aagtccctgg agaagatgtc gtagaagttg ttgtgagccc tccttttgtg ttccttcctg 240  
 ttgtaaaaag tttgctgcgc cctgatttcc atgtttcggc acaaaactgt tgggttcgca 300  
 aaggtggtgc ttataccggt gaggttagtg ctgaaatgct tgtaatttg ggaa 354

<210> 1704  
 <211> 291  
 <212> DNA  
 <213> Glycine max

<400> 1704

cccaggcgct cgtacggctg cgagaggacg acagaagggg gcagttgtat tgttgaacaa 60  
 gggtttcgct gtctgcttct tcactttctc tcgtttcaat cgaaacgaaa acaaaaacat 120  
 gggcagaaaa ttcttcgtcg gtggcaactg gaaatgcaat gggaccactg aggaggtaaa 180  
 gaagattgtt acgactttga atgaggcgaa agtccctgga gaagatatcg tacaagttgt 240  
 tgtgagccct ccttttgtgt tccttcctgt gggtaaaagt ttgctgcgcc c 291

<210> 1705  
 <211> 312  
 <212> DNA  
 <213> Glycine max

<400> 1705

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 gagggaaatc atgggcagaa aattcttcgt cgggtggcaac tggaaatgca atgggaccac 120  
 tgatgaggtg aagaagattg ttactacttt aaatgaagct aaagtccctg gagaagatgt 180

tgtagaagtt gttgtgagca ctcttttgt gttccttccg tttgtaaaaa gtttgctgcg 240  
ccctgatttc catgtctcgg cccaaaattg ttgggtacgc ataggtgatg cttagactgg 300  
agaagttagt gc 312

<210> 1706  
<211> 395  
<212> DNA  
<213> Glycine max

<400> 1706

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ctttgagcca aggtcttggg gtgattgcat gcattggaga attgttagaa gaaagggagg 120  
ctggaaaaac ttttgatggt tgttttcagc aattgaaggc ttatgcagac gcagttgcta 180  
gttgggacaa cattgttatt gcatatgaac ctgtatgggc cattggaacg ggcaaagtgg 240  
ccactcccca acaagctcag gaagtacatg tagctgttcg ggattggcta aaaaagaatg 300  
tctcagatga agttgcgtct aaaacacgaa ttatttatgg agggctctgta aatggaggca 360  
acagtgctga actggcaaag caagaagata ttgat 395

<210> 1707  
<211> 403  
<212> DNA  
<213> Glycine max

<400> 1707

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ctttgagcca aggtcttggg gtgattgcat gcattggaga attgttagaa gaaagggagg 120  
ctggaaaaac ttttgatggt tgttttcagc aattgaaggc ttatgcagac gcagttgcta 180  
gttgggacaa cattgttatt gcatatgaac ctgtatgggc cattggaacg ggcaaagtgg 240  
ccactcccca acaagctcag gaagtacatg tagctgttcg ggattggcta aaaaagaatg 300  
tctcagatga agttgcgtct aaaacacgaa ttatttatgg agggctctgta aatggaagca 360  
acagtgctga actggcaaag caagaagata ttgatggatt tct 403

<210> 1708  
<211> 254  
<212> DNA

<213> Glycine max  
 <220>  
 <221> unsure  
 <222> (1)..(254)  
 <223> unsure at all n locations  
 <400> 1708  
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 gcnagtacca tnntgagntg ntctnctatg ctgcgtacnt cnnactcct ggaaagggtta 120  
 tttcttgctg ctgacgagtc aacagggaca acgggcaagc gttnggncag catcagagta 180  
 gagaacattg aatccaacag gcgagctctt agggngcagn ctttactgc ccnngtgtnc 240  
 ttcaatatct cant 254

<210> 1709  
 <211> 283  
 <212> DNA  
 <213> Glycine max  
 <220>  
 <221> unsure  
 <222> (1)..(283)  
 <223> unsure at all n locations  
 <400> 1709  
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 tgccagtgtt acttatattg gcaccccgagg acttggtatg cttgcagctg atgagttaac 120  
 cggcacaatt gggaaacggt tggcgagctt caacgtggag aatgttgaaa cgaacaggcg 180  
 cattcttcgt gagctcctat tcaactgtcc cggttgtctt gagtgcctca gtggtgtcat 240  
 cttgtttgag gaaaccctct accaaatata agctgcagga gta 283

<210> 1710  
 <211> 268  
 <212> DNA  
 <213> Glycine max  
 <400> 1710  
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ccggccgtga acgtgacatc gtcgtcgacg acgaatgccg ctctgcaggc cgcccgcgac 180  
atcaagtcgc ccatcatcat ccagacatca aatggcgggc cgcccttcta cgctggcaaa 240  
ggtattgaca acaagaacca gaacgcct 268

<210> 1711  
<211> 261  
<212> DNA  
<213> Glycine max

<400> 1711

ggacgagaac atccccaagg cgcaaagcgc gttgctggtg aggtgcaagg cgaattctga 60  
ggctactctt ggaacttaca aggggggatgc cacgcttggg gaaggggctt ctgagtctct 120  
tcatgttaag gattataagt actaagagag aggtgtgaga ttggttcttt tggaatggaa 180  
ttgtttgttt ctttgggcct gttttggata ttcaagagtg tttttcaaaa aatttctact 240  
gaaaaggaaa gaaattctcc a 261

<210> 1712  
<211> 277  
<212> DNA  
<213> Glycine max

<220>  
<221> unsure  
<222> (1)..(277)  
<223> unsure at all n locations

<400> 1712

cnnatctaca agggtaactc acagcttinct gatggtgcct cagagagcct ccatgtttcg 60  
aactacagct actgatcaat cgaagttggn gttgtttgna ganactagtg cgagtaggan 120  
tcggtatnat gggtaacnaca accgnatttc ttgttgataa gtantatngt ggntngactc 180  
ttcccngaag nategnttgg nattnacngg atgttttcca gtgnncctnn atggccantt 240  
agtcatccag ggtgttggtg aactggcaac cnggaag 277

<210> 1713  
<211> 276  
<212> DNA  
<213> Glycine max

<400> 1713

ctttaccagt cgacaacaga tggaaataaa tttgtggatt gcctccgcga tcagaacatt 60  
 gtgcccggca tcaaagttga taagggtctg gtccctctgc cagggtcaaa caatgagtct 120  
 tggtgccaag ggctggatgg ttggcttcta ggtctgctga atactacaag caagggtgctc 180  
 gatttgccaa gtggaggaca gttgttagca ttccatgtgg tccttctgca ttagctgtcc 240  
 cggaagcagc gtgggggctt gcacgttatg ctgcta 276

<210> 1714  
 <211> 256  
 <212> DNA  
 <213> Glycine max  
 <220>  
 <221> unsure  
 <222> (1)..(256)  
 <223> unsure at all n locations  
 <400> 1714

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 ataatgtgga tgaagtagtt tcncaaaatg gccacgcga cgttngnggn nttctagaac 120  
 acacttcggt ntgttctct ctnttcttgg naagggtntt cttgctgctg atgagtcaac 180  
 agggacaatt ggcaagcggt tgggcagcat cagtgtagag aacattgaat ccaacaggcg 240  
 atctcttagg gagctg 256

<210> 1715  
 <211> 191  
 <212> DNA  
 <213> Glycine max  
 <220>  
 <221> unsure  
 <222> (1)..(191)  
 <223> unsure at all n locations  
 <400> 1715

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 tgctaccctt gctgagggtg cctccgagtc tctccatgtc naggactaca aatactaact 120  
 aaagggtgtg acttctttaa tttggagaat ttttgcaacta ttggctacac cattctcatg 180  
 ttcttccttc a 191

<210> 1716  
 <211> 248  
 <212> DNA  
 <213> Glycine max

<400> 1716

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 ggtgcctctg agtctctcca tgtcaaggac tacaaatact aactaaaggt gttgacttct 120  
 ttttaatttg agaatttttg cgctattggc tacaccattc tcatgttctt tccttcgtag 180  
 aagttagact cggccgattt gctttctgct ctcggttata ggatgtctac ggattggggg 240  
 gtaatcgc 248

<210> 1717  
 <211> 263  
 <212> DNA  
 <213> Glycine max

<400> 1717

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 atgtcttctt tcaagagcaa attccaagat gagttgattg ccaatgctag ttacattggc 120  
 accccaggaa agggatatct tgcggctgac gagtcaacag ggacaattgg gaagcgtttg 180  
 gcgagcatca acgtggagaa tgttgaaaca aacaggcgca ttcttcgtga gctcctattc 240  
 actgcccctg gttgtcttga gcg 263

<210> 1718  
 <211> 258  
 <212> DNA  
 <213> Glycine max

<400> 1718

cacaccaaatt taacaaagcc ttctttttct tgtgtgatct cacaagcccc taaaggccac 60  
 catgtcttcc ttcaagagca aattccaaga tgagttgatt gccaatgcta gttacattgg 120  
 caccacagga aacggtatcc ttgcggctga cgagtcaaca gggacaattg ggaagcgttt 180  
 ggcgagcatc aacgtggaga atgttgaacc aaaaagggga atcctccgtg agctcctatt 240  
 cactgcccct gggtgtct 258

<210> 1719  
 <211> 337  
 <212> DNA  
 <213> Glycine max

<400> 1719

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 atgtctcact tcaagggcaa gtaccatgat gagcttattg ccaatgctgc ttacattggc 120  
 actcctggaa agggatttct tgctgctgat gagtcaacag ggacaattgg caagcgtttg 180  
 gccagcatca gtgtagagaa tgttgaatcc aacaggcgtg ctcttaggga gctgcttttc 240  
 accgctcccg gtgctcttaa atatctcagt ggtgtcatcc tctttgagga aactctctac 300  
 cagagcacag ctgcaggcaa gccctttgtg gaagtct 337

<210> 1720  
 <211> 283  
 <212> DNA  
 <213> Glycine max

<400> 1720

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 acattggcac tcctggaaag ggtattcttg ctgctgatga gtcaacaggg acaattggca 120  
 agcgtttggc cagcatcagt gtagagaaca ttgaatccaa caggcgagct cttaggagac 180  
 tgcttttcac tgctcctggg gttcttcaat atctcagtgg tgtcatcctc tttgaggaaa 240  
 ccctctacca gagcacagct gcaggcaagc cctttgtgaa tgt 283

<210> 1721  
 <211> 382  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(382)  
 <223> unsure at all n locations

<400> 1721

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gatgagctta ttgccaatgc tgcttacatt ggcaattcct ggaaagggat tcttgctgct 120  
 gatgagtcaa cagggacaat tggcaagcgt ttggccagca tcagtgtaga gaatgttgaa 180  
 tccaacaggc gtgctcttag ggagctgctt ttcaccgctc ccggtgctct taaatatctc 240  
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 gtggaagtct tgaaggagct ggtgtgcttc tggcacaagg tgaccaaggc nagttgactt 360  
 ctggantaat ggagaaccac at 382

<210> 1722  
 <211> 314  
 <212> DNA  
 <213> Glycine max

<400> 1722

aggagaatgg cctgggtccc attgttgagc ctgagatcct tgttgatgga cctcatgaca 60  
 ttcacaagtg tgccgccgct accgagcgtg tccttgcagc atgctacaag gctttgaatg 120  
 atcaccatgt ccttcttgag ggtaccctat tgaagccaaa catggtcacc cctggatccc 180  
 aatctgctaa ggtttcccct caggtgggtg ccgagcacac tgtcagagcc cttcagagaa 240  
 ccgtgcctgc tgcagttcct gctgtcggtt tcttgctctgg tggccagagt gaggaggagg 300  
 catccgtcaa cctc 314

<210> 1723  
 <211> 288  
 <212> DNA  
 <213> Glycine max

<400> 1723

ctgcgtacat tggcactcct ggaaagggta ttcttgctgc tgatgagtca acagggacaa 60  
 ttggcaagcg tttggccagc atcagtgtag agaacattga atccaacagg cgagctctta 120  
 gggagctgct tttcactgct cctgggtgtt ttcaatatct cagtgggtgc atcctctttg 180  
 aggaaaccct ctaccagagc acagctgcag gcaagccctt tgtgaatgtc ttgaaggaag 240  
 ctggtgtgct tcctggcatc aagggttgaca agggcacagt cgagcttg 288

<210> 1724  
 <211> 279  
 <212> DNA

<213> Glycine max

<400> 1724

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ccatgatgag cttattgcc aatgctgctta cattggcact cctggaaagg gtattcttgc 60
tgctgatgag tcaacaggga caattggcaa gcgtttggcc agcatcagtg tagagaatgt 120
tgaatccaac aggcgtgctc ttagggagct gcttttcacc gctcccgggtg ctcttaaata 180
tctcagtggt gtcattctct ttgaggaaac tctctaccag agcacagctg caggcaagcc 240
ctttgtggaa gtcttgaagg aggctggtgt gcttcctgg 279
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<210> 1725

<211> 288

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)..(288)

<223> unsure at all n locations

<400> 1725

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gagaatgttg aatccaacag gcgtgctctt agggagctgc ttttcaccgc tcccgggtgct 60
cttaaataatc tcagtgggtgt catcctcttt gaggaactc tctaccagag cacagctgca 120
ggcaagccct ttgtggaagt cttgaaggag gctgggtgtgc ttcttgatc caagggtgac 180
aaggggcanag ttgagcttgc tggcactaat ggagaaacca ccactcaggg tctagatggc 240
cttggtcagc gttgcgcaa gtactatgaa gccggtgcac gttttgcc 288
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<210> 1726

<211> 319

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)..(319)

<223> unsure at all n locations

<400> 1726

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gaacgcctat ggcttgcgct agttacgctg tcatatgcc a ggagaatggc ctggttccca 60
ttggtgagcn tgagatcctn gttgatggac ctcacatgat tcacaagtgt gccgccgtca 120
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ccgagcgtgt ccttgcagca tgctacaagg ctttgaatga tcacntgtc cttcttgagg 180  
gtaccctatt gaagccnaac atggtcaccc ctggntccca atctgctaag gtttccctc 240  
aggtggttgc cgagcacact gtcagagccc ttcagagaac cgtgcctgct gcagttcctg 300  
ctgtcgtttt ctngtctgg 319

<210> 1727  
<211> 276  
<212> DNA  
<213> Glycine max

<400> 1727

cttcaagggc aagtaccatg atgagcttat cgccaatgct gcgtacattg gcactcctgg 60  
aaaggggtatt cttgctgctg atgagtcaac agggacaatt ggcaagcgtt tggccagcat 120  
cagtgtagag aacattgaat ccaacaggcg agctcttagg gagctgcttt tcaactgctcc 180  
tggtgttctt caatatctca gtggtgtcat cctctttgag gaaaccctct accagagaca 240  
gctgcaggca agccctttgt gaatgtcttg aaggaa 276

<210> 1728  
<211> 263  
<212> DNA  
<213> Glycine max

<400> 1728

cgagctctta gggagctgct tttcactgct cctgggtgttc ttcaatatct cagtgggtgc 60  
atcctctttg aggaaaccct ctaccagagc acagctgcag gcaagccctt tgtgaatgtc 120  
ttgaaggaag ctggtgtgct tcctggcatc aaggttgaca agggcacagt cgagcttgct 180  
ggaactaatg gagaaaccac cactcagggt ctagatggcc ttggtcagcg ttgtgccaag 240  
tactacgaag ctggtgcacg ttt 263

<210> 1729  
<211> 285  
<212> DNA  
<213> Glycine max

<400> 1729

tcaagggcaa gtaccatgat gagcttatcg ccaatgctgc gtacattggc actcctggaa 60

agggtattct tgctgctgat gagtcaacag ggacaattgg caagcgtttg gccagcatca 120  
 gtgtagagaa cattgaatcc aacaggcgag ctcttaggga gctgcttttc actgctcctg 180  
 gtgttcttca atatctcagt ggtgtcatcc tctttgagga aaccctctac cagagcacag 240  
 ctgcaggcaa gccctttgtg aatgtcttga aggaagctgg tgtgc 285

<210> 1730  
 <211> 278  
 <212> DNA  
 <213> Glycine max

<400> 1730

gggtattctt gctgctgatg agtcaacagg gacaattggc aagcgtttgg ccagcatcag 60  
 tgtagagaat gttgaatcca acaggcggtgc tcttagggag ctgcttttca ccgctcccgg 120  
 tgctcttaaa tatctcagtg gtgtcatcct ctttgaggaa actctctacc agagcacagc 180  
 tgcaggcaag ccctttgtgg aagtcttgaa ggaggctggg gttcttcctg gcatcaaggt 240  
 tgacaagggc acagttgagc ttgctggcac taatggag 278

<210> 1731  
 <211> 265  
 <212> DNA  
 <213> Glycine max

<400> 1731

ctcttaggga gctgcttttc actgctcctg gtgttcttca atatctcagt ggtgtcatcc 60  
 tctttgagga aaccctctac cagagcacag ctgcaggcaa gccctttgtg aatgtcttga 120  
 aggaagctgg tgtgcttcct ggcacatcaagg ttgacaaggg cacagtcgag cttgctggaa 180  
 ctaatggaga aaccaccact caggggtctag atggccttgg tcagcgttgt gccaaagtact 240  
 acgaagctgg tgcacgtttt gccaa 265

<210> 1732  
 <211> 264  
 <212> DNA  
 <213> Glycine max

<400> 1732

cgatcatgtc tcaacttcaag ggcaagtacc atgatgagct tattgccaat gctgcttaca 60

ttggcactcc tggaaaggggt attcttgctg ctgatgagtc aacagggaca attggcaagc 120  
gtttggccag catcagtgtg gagaatgttg aatccaacag gcgtgctctt agggagctgc 180  
ttttcaccgc tcccgggtgct cttaaataac tcagtgggtg catcctcttt gaggaaactc 240  
tctaccagag cacagctgca ggca 264

<210> 1733  
<211> 349  
<212> DNA  
<213> Glycine max

<220>  
<221> unsure  
<222> (1)..(349)  
<223> unsure at all n locations

<400> 1733

tctagatggc cttgggtcagc gttgtgccaa gtgctacgaa gctgggtgcac gttttgccaa 60  
atggcggtgca gtgctgaaga ttggtcccaa cgagccatct gagctgtcta tccatgagaa 120  
cgnccatagg cttgggtaga tacgctgtca tatgccagga gaatggcctg gttcccattg 180  
ttgagcctga gatccttggt gatggacctc atgacattca caagtgtgcc gccgtcaccg 240  
agcgtgtcct tgcagcatgc tacaaggctt gaatgatcac catgtccttc ttgagggtac 300  
ctatgaagcc aaaccatggt caccctggat cccaatctgt aagggtccc 349

<210> 1734  
<211> 273  
<212> DNA  
<213> Glycine max

<400> 1734

tgctgctgat gagtcaacag ggacaattgg caagcgtttg gccagcatca gtgtagagaa 60  
tgttgaatcc aacaggcgtg ctcttaggga gctgcttttc accgctcccg gtgctcttaa 120  
atatctcagt ggtgtcatcc tctttgagga aactctctac cagagcacag ctgcaggcaa 180  
gccctttgtg gaagtcttga aggaggctgg tgttcttcct ggcacaaagg ttgacaaggg 240  
cacagttgag cttgctggca ctaatggaga aac 273

<210> 1735  
<211> 258

<212> DNA  
 <213> Glycine max  
 <400> 1735  
 atcatgtctc acttcaaggg caagtaccat gatgagctta tcgccaatgc tgcgtacatt 60  
 ggcactcctg gaaaggggtat tcttgctgct gatgagtcaa cagggacaat tggcaagcgt 120  
 ttggccagca tcagtgtaga gaacattgaa tccaacaggc gagctcttag ggagctgctt 180  
 ttcactgctc ctggtgttct tcaatattca gtggtgtcat cctctttgag gaaaccctct 240  
 accagagtac agctgcag 258

<210> 1736  
 <211> 267  
 <212> DNA  
 <213> Glycine max  
 <400> 1736  
 cttcaagggc aagtaccatg atgagcttat cgccaatgct gcgtacattg gcactcctgg 60  
 aaaggggtatt cttgctgctg atgagtcaac agggacaatt ggcaagcgtt tggccagcat 120  
 cagtgtagag aacattgaat ccaacaggcg agctcttagg gagctgcttt tcaactgctcc 180  
 tgggtgttctt caatatctca gtggtgtcat cctctttgag gaaaccctct accagagcac 240  
 agctgcaggc aagccctttg tgaatgt 267

<210> 1737  
 <211> 259  
 <212> DNA  
 <213> Glycine max  
 <400> 1737  
 ggcgagctct tagggagctg cttttcactg ctcttggtgt ttttcaatat ctcaagtggg 60  
 tcatcctctt tgaggaaacc ctctaccaga gcacagctgc aggcaagccc tttgtgaatg 120  
 ttttgaagga agctggtgtg cttcctggca tcaaggttga caagggcaca gtcgagcttg 180  
 ctggaactaa tggagaaacc accactcagg gtctagatgg ctttggtcag cgttgtgcc 240  
 agtactacga agctggtgc 259

<210> 1738  
 <211> 270

<212> DNA  
 <213> Glycine max

<400> 1738

tgcgtacatt ggcaactcctg gaaagggtat tcttgctgct gatgagtcaa cagggacaat 60  
 tggcaagcgt ttggccagca tcagtgtaga gaacattgaa tccaacaggc gagctcttag 120  
 ggagctgctt ttcactggtc ctggtgttct tcaatatctc agtgggtgtca tcctctttga 180  
 ggaaaccctc taccagagca cagctgcagg caagcccttt gtgaatgtct tgaaggaagc 240  
 tgggtgtgctt cctggcatca aggttgacaa 270

<210> 1739  
 <211> 357  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(357)  
 <223> unsure at all n locations

<400> 1739

gtccaaccta cccctttttc ttctcccacc aacttcaccg tnntcttctt cgatcatgtc 60  
 tcactncaag ggcaagtacc atgatgagct tattgccaat gctgcttaca ttggcactcc 120  
 tggaaagggg attcttgctg ctgatgagtc aacagggaca attggcaagc gtttggccag 180  
 catcagtgtg gagaatgttg aatccaacag gcgtgctctt agggagctgc ttttcaccgc 240  
 tcccgggtgct cttaaataac tcagtgggtg catcctcttt gaggaatatc ctaccagcac 300  
 agctgcaggc aagccctttg tggaatcttg aaggaggctg gtgtgcttcc tggcatc 357

<210> 1740  
 <211> 255  
 <212> DNA  
 <213> Glycine max

<400> 1740

atcctctttg aggaaaccct ctaccagagc acagctgcag gcaagccctt tgtgaatgtc 60  
 ttgaaggaag ctggtgtgct tcctggcatc aaggttgaca agggcacagt cgagcttgct 120  
 ggaactaatg gagaaaccac cactcagggt ctagatggcc ttggtcagcg ttgtgccaag 180

tactacgaag ctggtgcacg ttttgccaaa tggcgtgcag tgctgaagat tggccccaac 240  
gagccatctg agctg 255

<210> 1741  
<211> 292  
<212> DNA  
<213> Glycine max

<400> 1741

atcctctttg aggaaaccct ctaccagagc acagctgcag gcaagccctt tgtgaatgtc 60  
ttgaaggaag ctggtgtgct tcctggcatc aaggttgaca agggcacagt cgagcttgct 120  
ggaactaatg gagaaaccac cactcagggt ctagatggcc ttggtcagcg ttgtgccaaag 180  
tactacgaag ctggtgcacg ttttgccaaa tggcgtgcag tgctgaagat tggccccaac 240  
gagccatctg agctgtctat cccatgagaa cgctatggct tggctagata cc 292

<210> 1742  
<211> 292  
<212> DNA  
<213> Glycine max

<220>  
<221> unsure  
<222> (1)..(292)  
<223> unsure at all n locations

<400> 1742

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gggcaagtac catgatgagc ttatcgccaa tgctgcgtac attggcactc ctggaaaggg 120  
tattcttgct gctgatgagt caacagggac aattggcaag cgtttggcca gcatcagtgt 180  
agagaacatt gaatccaaca ggcgagctct tagggagctg cttttcactg ctcttggtgt 240  
tcttcaatat ctcagtgggtg tcctctctt tgaggaaacc ctctaccagg ng 292

<210> 1743  
<211> 265  
<212> DNA  
<213> Glycine max

<400> 1743

gtggttgccg agcacactgt cagagccctt cagagaaccg tgcttgccgc agttctgtgt 60



gtcgttttct tgtctggtgg ccagagtgag gaggaggcat ctgtcaacct caacgccatt 120  
aaccaggtca atgggaagaa gccatggtca ctctctttct cttttggaag ggcacttcaa 180  
cagagcaccc ttaaggcatg gggcgga aaa gaagagaatg tgaagaaggc tcaggaagcc 240  
cttttggtaa gagccaaggc taact 265

<210> 1744  
<211> 262  
<212> DNA  
<213> Glycine max  
<400> 1744

tgcagatgag cttatcgcca atgctgcgta cattggcact cctggaaagg gtattcttgc 60  
tgctgatgag tcaacaggga caattggcaa gcgtttggcc agcatcagt tagagaacat 120  
tgaatccaac aggcgagctc ttagggagct gcttttctact gctcctggtg ttcttcaata 180  
tctcagtggg gtcctcctct ttgaggaaac cctctaccag agcacagctg caggcaagcc 240  
ctttgtgaat gtcttgaagg aa 262

<210> 1745  
<211> 266  
<212> DNA  
<213> Glycine max

<220>  
<221> unsure  
<222> (1)..(266)  
<223> unsure at all n locations  
<400> 1745

accatgatna gcttatcgcc aatgctgcgt acattggcac tcttgaaagg ggtattcttg 60  
ctgctgatga gtcaacaggg acaattggca agcggttggc cagnatcagt gtagagaaca 120  
ttgaatccaa caggcgagct cttagggagc tgcttttctac tgctcctggt gttcttcaat 180  
atctcagtgg tgtcatcctc tttgaggaaa ccctctacca gaggacagct gcangcaagc 240  
cctttgtgaa tgtcttgaag ggagct 266

<210> 1746  
<211> 276  
<212> DNA

<213> Glycine max

<400> 1746

ctggatccca atctgctaag gtttcccctc aggtggttgc cgagcacact gtcagagccc 60  
ttcagagaac cgtgcctgct gcagttcctg ctgtcggtttt cttgtctggt ggccagagtg 120  
aggaggaggc atccgtcaac ctcaacgcca ttaaccagggt caatgggaag aagccatggt 180  
cactctcttt ctcctttgga agggcacttc aacagagcac ccttaaggca tggggcgga 240  
cagaagagaa tgtgaagaag gtcaggaag cccttt 276

<210> 1747

<211> 248

<212> DNA

<213> Glycine max

<400> 1747

agggcaagta ccatgatgag cttatcgcca atgctgcgta cattggcact cctggaaagg 60  
gtattcttgc tgctgatgag tcaacaggga caattggcaa gcgtttggcc agcatcagtg 120  
tagagaacat tgaatccaac aggcgagctc ttagggagct gcttttcact gtccttggtg 180  
ttcttcaata tctcagtggg gtcacacctt ttgaggaaac cctctaccag agcacagtctg 240  
caggcaag 248

<210> 1748

<211> 300

<212> DNA

<213> Glycine max

<400> 1748

ctctaaceta cctctttttc ttctctctca acaacttcac cttcttctc ctcgatcatg 60  
tctcacttca agggcaagta ccatgatgag cttatcgcca atgctgcgta cattggcact 120  
cctggaaagg gtattcttgc tgctgatgag tcaacaggga caattggcaa gcgtttggcc 180  
agcatcagtg tagagaacat tgaatccaac aggcgagctc ttagggagct gcttttcact 240  
gctcctcgtg ttcttcaata tctcagtggg gtcacacctt ttgaggaaac cctctaccag 300

<210> 1749

<211> 287

<212> DNA

<213> Glycine max

<400> 1749

gaacgcctat ggcttggcta gttacgctgt catatgccag gagaatggcc tggttcccat 60  
tgttgagcct gagatccttg ttgatggacc tcatgacatt cacaagtgtg ccgccgtcac 120  
cgagcgtgtc cttgcagcat gctacaaggc ttgaatgatc accatgtcct tcttgagggt 180  
accctattga agccaaacat ggtcacccct ggatcccaat ctgctaaggt ttcccctcag 240  
gtggttgccg agcacactgt cagagccctt cagagaaccg tgcctgc 287

<210> 1750

<211> 254

<212> DNA

<213> Glycine max

<400> 1750

ctttgaggaa accctctacc agagcacagc tgcaggcaag ccctttgtga atgtcttgaa 60  
ggaagctggt gtgcttctcg gcatcaaggt tgacaagggc acagtcgagc ttgctggaac 120  
taatggagaa accaccactc agggctctaga tggccttggt cagcgttgtg ccaagtacta 180  
cgaagctggt gcacgttttg ccaaattggc tgcagtgtcg aagattggtc ccaacgagcc 240  
atctgagctg tcta 254

<210> 1751

<211> 267

<212> DNA

<213> Glycine max

<400> 1751

caacaacttc accttcttcc tctcgcata tgtctcactt caagggcaag taccatgatg 60  
agcttatcgc caatgctgcg tacattggca ctctggaaa gggattctt gctgctgatg 120  
agtcaacagg gacaattggc aagcgtttgg ccagcatcag tgtagagaac attgaatcca 180  
acaggcgagc tcttagggag ctgcttttca ctgctcctgg tgttcttcaa tatctcagtg 240  
gtgtcatcct ctttgaggaa acctct 267

<210> 1752

<211> 261

<212> DNA

<213> Glycine max  
 <220>  
 <221> unsure  
 <222> (1)..(261)  
 <223> unsure at all n locations  
 <400> 1752  
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 ttggcactcc tggaaagggt attcttgctg ctgatgagtc aacagggaca attggcaagc 120  
 gtttggccag catcgtgtag agaatgttga atccaacagg cgtgctctta gggagctgct 180  
 ttccaccgct cccggtgctc ttaaatactc cagtgggtgct atcctctttg aggaaactct 240  
 ctaccagagn acagctgcag g 261

<210> 1753  
 <211> 267  
 <212> DNA  
 <213> Glycine max  
 <220>  
 <221> unsure  
 <222> (1)..(267)  
 <223> unsure at all n locations  
 <400> 1753  
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 cactctcttt ctcccttgga agggcacttc aacagagcac ccttaaggca tggggcggaa 120  
 aagaagagaa tgtgaagaag gctcaggaag cccttttggt aagagccaag gctaactcag 180  
 aggcaactct gggaacctac aagggttaact cacagcttgc tgatgggtgcc tcagagagcc 240  
 tncatgtttc gaactacagc tactgat 267

<210> 1754  
 <211> 260  
 <212> DNA  
 <213> Glycine max  
 <400> 1754  
 ggacaattgg caagcgtttg gccagcatca gtgtagagaa tggtgaatcc aacaggcgtg 60  
 ctcttaggga gctgcttttc accgctcccc gtgctcttaa atatctcagt ggtgtcatcc 120

tctttgagga aactctctac cagagcacag ctgcaggcaa gccctttgtg gaagtcttga 180  
aggaggctgg tgttcttcct ggcatcaagg ttgacaaggg cacagttgag cttgctggca 240  
ctaattggaga aaccaccact 260

<210> 1755  
<211> 289  
<212> DNA  
<213> Glycine max

<400> 1755

ctaacctacc tctttttctt ctctctcaac aacttcacct tcttcctcct cgatcatgtc 60  
tcacttcaag ggcaagtacc atgatgagct tatcgccaat gctgcgtaca ttggcactcc 120  
tggaagggt attcttgctg ctgatgagtc aacagggaca attggcaagc gtttggccag 180  
catcagtgtg gagaacattg aatccaacag gcgagctctt agggagctgc ttttactgc 240  
tcctggtggt cttcaatatc tcagtgggtg catcctcttt gaggaacc 289

<210> 1756  
<211> 265  
<212> DNA  
<213> Glycine max

<400> 1756

ctcttaggga gctgcttttc acgactcctg gtgtttcttca atatctacag tgggtgcatc 60  
ctctttgagg aaacctctta ccagagcaca gctgcaggca agccctttgt gaatgtcttg 120  
aaggaagctg gtgtgcttcc tggcatcaag gttgacaagg gcacagtoga gcttgctgga 180  
actaatggag aatccaccac tcagggtcta gatggccttg gtcagcgttg tgccaagtac 240  
tacgaagctg gtgcacgttt tgcca 265

<210> 1757  
<211> 238  
<212> DNA  
<213> Glycine max

<400> 1757

tctcagtggg gtcacctctt ttgaggaaac cctctaccag agcacagctg caggcaagcc 60  
ctttgtgaat gtcttgaagg aagctgggtg gcttcctggc atcaaggttg acaagggcac 120

agtcgagctt gctggaacta atggagaaac caccactcag ggtctagatg gccttggtca 180  
gcgttctgcc aagtactacg aagctggtgc acgttttggc aaatggcgtg cagtgcgtg 238

<210> 1758  
<211> 280  
<212> DNA  
<213> Glycine max

<400> 1758

tacctctttt tcttctctct caacaacttc accttcttcc tcctcgatca tgtctcactt 60  
caagggcaag taccatgatg agcttatcgc caatgctgcg tacattggca ctcttggaag 120  
gggtattctt gctgctgatg agtcaacagg gacaattggc aagcgtttgg ccagcatcag 180  
tgtagagaac attgaatcca acaggcgagc tcttagggag ctgcttttca ctgctcctgg 240  
tggtcttcaa tatctcagtg gtgtcatcct ctttgaggaa 280

<210> 1759  
<211> 256  
<212> DNA  
<213> Glycine max

<400> 1759

ccagcatcag tgtagagaat gttgaatcca acaggcgtgc tcttagggag ctgcttttca 60  
ccgtccccgg tgctcttaaa tatctcagtg gtgtcatcct ctttgaggaa actctctacc 120  
agagcacagc tgcaggcaag ccctttgtgg aagtcttgaa ggaggctggg gtgcttcttg 180  
gcatcaaggt tgacaagggc acagttgagc ttgctggcac taatggagaa accaccactc 240  
agggtctaga tggctt 256

<210> 1760  
<211> 274  
<212> DNA  
<213> Glycine max

<400> 1760

tctttttctt ctctctcaac aacttcacct tcttctctct cgatcatgtc tcacttcaag 60  
ggcaagtacc atgatgagct tatcgccaat gctgcgtaca ttggcactcc tggaaagggg 120  
attcttgctg ctgatgagtc aacagggaca attggcaagc gtttggccag catcagtgtg 180

gagaacattg aatccaacag gcgagctctt agggagctgc ttttactgc tcttgggtgt 240  
 cttcaatatc tcagtgggtg catcctcttt gagg 274

<210> 1761  
 <211> 250  
 <212> DNA  
 <213> Glycine max

<400> 1761

tggaaagggt attcttgctg ctgatgagtc aacagggaca attggcaagc gtttggccag 60  
 catcagtgtg gagaatcttg aatccaacag gcgtgctctt agggagctgc ttttcaccgc 120  
 tcccgggtgct cttaaatatc tcagtgggtg catcctcttt gaggaaactc tctaccagag 180  
 cacagctgca ggcaagccct ttgtggaagt cttgaaggag gctgggtgttc ttctggcat 240  
 caaggttgac 250

<210> 1762  
 <211> 256  
 <212> DNA  
 <213> Glycine max

<400> 1762

ccatgatgag cttattgcca atgctgctta cattggcact cctggaaagg gtattcttgc 60  
 tgctgatgag tcaacagga caattggcaa gcgtttgcca gcatcagtgt agagaatgtt 120  
 gaatccaaca ggcgtgctct tagggagctg cttttcaccg ctcccgggtgc tcttaaatat 180  
 ctcagtgggtg tcctcctctt tgaggaaact ctctaccaga gcacagctgc aggcaagccc 240  
 tttgtggaag tcttga 256

<210> 1763  
 <211> 295  
 <212> DNA  
 <213> Glycine max

<400> 1763

tctttttctt ctctctcaac aacttcacct tcttctctct cgatcatgtc tcacttcaac 60  
 ggcaagtacc atgatgagct tatcgccaat gctgcgtaca ttggcactcc tggaaagggt 120  
 attcttgctg ctgatgagtc aacagggaca attggcaagc gtttggccag catcagtgtg 180

gagaacattg aatccaacag gcgagctctt aggggcgcgc ttttactgc tcttggtgtt 240  
 cttcaatatc tcagtgggtg catcctcttt gatgaaccct ctaccagagc acagc 295

<210> 1764  
 <211> 269  
 <212> DNA  
 <213> Glycine max

<400> 1764

ctcgagccgc ttcttctcc tcgatcatgt ctacttcaa gggcaagtac catgatgagc 60  
 tcacgcgcaa tgctgcgtac attggcactc ctggaaaggg tattcttgct gctgatgagt 120  
 caacagggac aattggcaag cgtttggcca gcatcagtgt agagaacatt gaatccaaca 180  
 ggcgagctct tagggagctg cttttactg ctcttggtgt tttcaatat ctcagtgggtg 240  
 tcacctcttt tgaggaaacc ctctaccag 269

<210> 1765  
 <211> 252  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(252)  
 <223> unsure at all n locations

<400> 1765

ggcaagtaac atgatgagct tatcgccaat gctgcgtnc a tnggcactcc tgganagggt 60  
 attcttgctg ctgatgagtc aacagggnc a attggcaagc gtttggccag natcagtgt a 120  
 gagnacattg aatccaacag gcgagctctt agggagctgc ttttnactgc tcttggtgtt 180  
 cttcaatatc tcagtgggtg catcctcttt gaggaaaccc tctaccagag cacagctgca 240  
 ggcaagccct tt 252

<210> 1766  
 <211> 256  
 <212> DNA  
 <213> Glycine max

<400> 1766

ggaggaggca tccgtcaacc tcaacgccat taaccaggtc aatgggaaga agccatggtc 60



actctctttc tcctttggaa gggcacttca acagagcacc ctttaaggcat ggggcggaaa 120  
agaagagaat gtgaagaagg ctcaggaagc ccttttggtta agagccaagg ctaactcaga 180  
ggcaactctg ggaacctaca agggtaactc acagcttgct gatggtgcct cagagagcct 240  
ccatgttttcg aactac 256

<210> 1767  
<211> 261  
<212> DNA  
<213> Glycine max  
<400> 1767

ctcaggtggt tgccgagcac actgtcagag cccttcagag aaccgtgcct gctgcagttc 60  
ctgctgtcgt tttcttgtct ggtggccaga gtgaggagga ggcacccgtc aacctcaacg 120  
ccattaacca ggtcaatggg aagaagccat ggtcactctc tttctccttt ggaagggcac 180  
ttcaacagag cacccttaag gcatggggcg gaaaagaaga gaatgtgaag aaggctcagg 240  
aagccctttt ggtaagagcc a 261

<210> 1768  
<211> 269  
<212> DNA  
<213> Glycine max  
<400> 1768

attcacaagt gtgccgccgt caccgagcgt gtccttgag catgctacaa ggctttgaat 60  
gatcaccatg tccttcttga gggtagccta ttgaagccaa acatgggtcac ccctggatcc 120  
caatctgcta aggtttcccc tcaggtggtt gccgagcaca ctgtcagagc ccttcagaga 180  
actgtgcctg ctgcagttcc tgctgtcgtt ttcttgtctg gtggccagag tgaggaggag 240  
gcatccgtca acctcaacgc cattaacca 269

<210> 1769  
<211> 294  
<212> DNA  
<213> Glycine max  
<400> 1769

acctacctct ttttcttctc totcaacaac ttcacctctc tcctctctga tcatgtctca 60

cttcaagggc aagtaccatg atgagcttat cgccaatgct gcgtacattg gctctcctgt 120  
gaaaggggtat tcttgctgct gatgagtcaa cagggacaat tggcaagcgt ttggccagca 180  
tcagtgtaga gaacattgaa tccaacaggc gagctcttag ggagctgctt ttcactgctc 240  
ctgggtgttct tcaatatctc agtgggtgtca tctcttttga ggaaacctct acca 294

<210> 1770  
<211> 248  
<212> DNA  
<213> Glycine max

<400> 1770

tgaatccaac aggcgagctc ttagggagct gcttttctact gctcctgggtg ttcttcaata 60  
tctcagtggg gtcctcctct ttgaggaaac cctctaccag agcacagctg caggcaagcc 120  
ctttgtgaat gtcttgaagg aagctgggtg gcttcctggc atcaagggtg acaagggcac 180  
agtcgagctt gctggaacta atggagaaac caggactcag ggtctagatg gccttgggtca 240  
gcgttgtg 248

<210> 1771  
<211> 267  
<212> DNA  
<213> Glycine max

<220>  
<221> unsure  
<222> (1)..(267)  
<223> unsure at all n locations

<400> 1771

tggatctcat gacattcaca agtntgctgc cgtcaccgag cgtgtccttg cagcatgcta 60  
caaggctttg aatgatcacc acgtccttct tgagggtacc ctattgaagc caaacatggg 120  
caccctcgga tccaattctg ctaaggtttc ccctcagggtg gttgcggagc aactgttag 180  
agcccttcag agaaccgtgc ctgctgcagt tcttgcctatc gttttcttgt ctgggtgggca 240  
gagtgaggag gaggcacccg ttaacct 267

<210> 1772  
<211> 285  
<212> DNA

<213> Glycine max

<400> 1772

ctctaacctta cctcttttttc ttctctctca acaacttcac cttcttcttc ctcgatcatg 60  
tctcacttca agggcaagta ccatgatgag cttatcgcca atgctgcgta cattggcact 120  
cctggaaagg gtattcttgc tgctgatgag tcaacaggga caattggcaa gcgtttggcc 180  
agcatcagtg tagagaacat tgaatccaac aggcgagctc ttagggagct gcttttact 240  
gtccttggtg ttcttcaata tctcagtggg gtcctcctct ttgag 285

<210> 1773

<211> 267

<212> DNA

<213> Glycine max

<400> 1773

ctgttagagc ccttcagaga accgtgcctg ctgcagttcc tgctatcggt ttcttgtctg 60  
gtgggcagag tgaggaggag gcatccgta acctcaatgc cattaaccag gtcaatggaa 120  
agaagccatg gtcactctct ttctcctttg gaagggcact tcaacagagc acccttaagg 180  
catggagtgg aaaagaggag aatgtgaaga aggctcagga agcccttttg gtaagagcca 240  
aggccaactc agaggcaact ctgggaa 267

<210> 1774

<211> 285

<212> DNA

<213> Glycine max

<400> 1774

tctaacctac ctctttttct tctctctcaa caacttcacc ttcttctctc tcgatcatgt 60  
ctcacttcaa gggcaagtac catgatgagc ttatcgccaa tgctgcgtac attggcactc 120  
ctggaaaggg tattcttgcg gctgatgagt caacaggga aattggcaag cgtttggcca 180  
gcatcagtgt agagaacatt gaatccaaca ggcgagctct tagggagctg cttttcactg 240  
ctcctgggtg tcttcaatat ctcagtggg tcatcctctt tgagg 285

<210> 1775

<211> 284

<212> DNA

<213> Glycine max

<400> 1775

```
ctaacctacc tctttttctt ctctctcaac aacttcacct tcttctctct cgatcatgtc 60
tcacttcaag ggcaagtacc atgatgagct tatcgccaat gctgcgtaca ttggcactcc 120
tggaagggtt attcttgctg ctgatgagtc aacagggaca attggcaagc gtttggccag 180
catcagtgtg gagaacattg aatccaacag gcgagctctt agggagctgc ttttactgc 240
tcttggtgtt cttcaatatc tcagtgggtg catcctcttt gagg 284
```

<210> 1776

<211> 261

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)..(261)

<223> unsure at all n locations

<400> 1776

```
cagagaaccg tgcttctgct agttcctgct atcgttttct tgtctngtgg gcagagtgag 60
gaggaggcat ccgttaacct caatgccatt aaccaggtca atggaaagaa gccatggtca 120
ctctctttct cctttggaag ggcacttcaa cagagcaccc ttaaggcatg gagtggaaaa 180
gaggagaatg tgaagaaggc tcaggaagcc cttttggtaa gagccaaggc taactcagag 240
gcaactctgg gaactacaag g 261
```

<210> 1777

<211> 274

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)..(274)

<223> unsure at all n locations

<400> 1777

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tgctnctgct agttcctgct atcgttttct tgtctngtgg gcagagtgag gaggaggcat 60
ccgttaacct caatgccatn aaccaggtca atggaaagaa gccatggtca ctctctttct 120
```

cctttggaag ggcacttcaa gnagcaccct taaggcatgg agtggaaaag aggagaatgt 180  
gaagaaggct caggaagccc ttttggttaag agccaaggcc aactcagagg caactctggg 240  
aacctacaag ggtaactcaa agcttgctga tggg 274

<210> 1778  
<211> 248  
<212> DNA  
<213> Glycine max

<400> 1778

gtctcacttc aagggaagt accatgatga gcttatcgcc aatgctgcgt acattggcac 60  
tcttggaacc ggtattcttg ctgctgatga gtcaacaggg acaattggca agcgtttggc 120  
cagcatcagt gtagagaaca ttgaatcaa caggcgagct cttagggagc tgcttttcac 180  
tgctcctggg gttcttcaat atctcagtgg tgtcatcctc tttgaggaaa ccctctacca 240  
gagcacag 248

<210> 1779  
<211> 278  
<212> DNA  
<213> Glycine max

<400> 1779

aacctacctc tttttcttct ctctcaacaa cttcaccttc ttctctctcg atcatgtctc 60  
acttcaaggg caagtaccat gatgagctta tcgccaatgc tgcgtacatt ggcactcctg 120  
gaaaggggtat tcttgctgct gatgagtcaa cagggaacaat tggcaagcgt ttggccagca 180  
tcagtgtaga gaacattgaa tccaacaggc gagctcttag ggagctgctt ttcactgctc 240  
ctgggtgttct tcaatatctc agtggtgtca tctctttt 278

<210> 1780  
<211> 271  
<212> DNA  
<213> Glycine max

<400> 1780

ctctttttct tctctctcaa caacttcacc ttcttctctc tcgatcatgt ctcacttcaa 60  
gggcaagtac catgatgagc ttatcgccaa tgctgcgtac attggcactc ctggaaaggg 120

tattcttgct gctgatgagt caacagggac aattggcaag cgtttggcca gcatcagtgt 180  
agagaacatt gaatccaaca ggcgagctct tagggagctg cttttcactg ctcttggtgt 240  
tcttcaatat ctcaagtggg tcatcctctt t 271

<210> 1781  
<211> 273  
<212> DNA  
<213> Glycine max

<400> 1781

ctctttttct tctctctcaa caacttcacc ttcttctctc tcgatcatgt ctcaattcaa 60  
gggcaagtac catgatgagc ttatcgccaa tgctgcgtac attggcactc ctggaaaggg 120  
tattcttgct gctgatgagt caacagggac aattggcaag cgtttggcca gcatcagtgt 180  
atagaacatt gaatccaaca ggcgagctct tagggagctg cttttcactg ctcttggtgt 240  
tcttcaatat ctcaagtggg tcatcctctt tga 273

<210> 1782  
<211> 238  
<212> DNA  
<213> Glycine max

<400> 1782

gaatccaaca ggcgagctct tagggagctg cttttcactg ctcttggtgt tcttcaatag 60  
gtcagtggg tcatcctctt tgaggtaacc ctctaccaga gcacagctgc aggcaagccc 120  
tttgtgaatg tcttgaagga agctgggtg cttcttgga tcaagggtga caagggcaca 180  
gtcgagcttg ctggaactaa tggagaaacc accactcagg gtctagatgg ccttggtc 238

<210> 1783  
<211> 258  
<212> DNA  
<213> Glycine max

<400> 1783

aacagggaca attggcaagc gtttggcag catcagtgt gagaatgtt aatccaacag 60  
gtgtgctctt agggagctgc ttttcaccgc tcccggtgct cttaaatac tcagtgggtg 120  
catcctcttt gaggaaactc tctaccagag cacagctgca ggcaagccct ttgtggaagt 180

cttgaaggag gctggtgtgc ttcttggcat caaggttgac aagggcacag ttgagcttgc 240  
 tggcactaat ggagaaac 258

<210> 1784  
 <211> 257  
 <212> DNA  
 <213> Glycine max

<400> 1784

attgaagcca aacatggtca cccttggatc ccaatctgct aaggtttccc ctcaggtggt 60  
 tgccgagcac actgtcagag cccttcagag aaccgtgcct gctgcagttc ctgctgtcgt 120  
 tttcttgtct ggtggccaga gtgaggagga ggcattccgtc aacctcaacg ccattaacca 180  
 ggtcaatggg aagaagccat ggtcactctc tttctccttt ggaagggcac ttcaacagag 240  
 cacccttaag gcatggg 257

<210> 1785  
 <211> 272  
 <212> DNA  
 <213> Glycine max

<400> 1785

cgagaaccgt gcttctgca gttcctgcta tcgttttctt gtctggtggg cagagtgagg 60  
 aggaggcatc cgttaacctc aatgccatta accaggtcaa tggaaagaag ccatggtcac 120  
 tctctttctc ctttggagg gcacttcaac agagcaccct taaggcatgg agtggaagg 180  
 aggagaatgt gaagaaggct caggaagccc ttttggttaag agccaaggcc aactcagagg 240  
 caactctggg aactacaagg gtaatcaaag ct 272

<210> 1786  
 <211> 273  
 <212> DNA  
 <213> Glycine max

<400> 1786

ctctttttct tctcttcaa caacttcacc ttcttctctc tcgatcatgt ctcacttcaa 60  
 gggcaagtac catgatgagc ttatcgccaa tgctgcgtac attggcactc ctggaaaggg 120  
 tattcttgct gctgatgagt caacagggac aattggcaag cgtttggcca gcatcagtg 180

agagaacatt gaatccaaca ggcgagctct tagggagctg cttttcactg ctcttggtgt 240  
tcttcaatat ctcatgggtg tcctcctctt tga 273

<210> 1787  
<211> 270  
<212> DNA  
<213> Glycine max

<400> 1787

tgacattcac aagtgtgctg ccgtcaccga gcgtgtcctt gcagcatgct acaaggcttt 60  
gaatgatcac cacgtccttc ttgagggtac cctattgaag ccaaactggg tcacccccgg 120  
atccaattct gctaggtttc ccctcaggtg gttgcggaga cactgttaga gcccttcaga 180  
gaaccgtgcc tgctgcagtt cctgctatcg ttttcttgtc tgggtgggcag agtgaggagg 240  
aggcatccgt taacctcaat gccattaacc 270

<210> 1788  
<211> 284  
<212> DNA  
<213> Glycine max

<220>  
<221> unsure  
<222> (1)..(284)  
<223> unsure at all n locations

<400> 1788

gtgcctgctg cagttcctgc tatcgttttc ttgtctggtg ggcagagtga ggnggaggca 60  
tccgttaacc ctnaangcca ttaaccaggt caatggaaag aagccatggt cactctcttt 120  
ctcctttgga agggcacttc aacagagcac ccttaaggca tggagtggaa aagaggagaa 180  
tgtgaagaag gctcaggaag cccttttggg aagagccaag gccaaactnag aggcaactct 240  
gggaacctac aagggnaatc aaagcntgct gatggtgcct caga 284

<210> 1789  
<211> 268  
<212> DNA  
<213> Glycine max

<220>  
<221> unsure  
<222> (1)..(268)



<223>        unsure at all n locations

<400>        1789

```
cttgctgctg atgagtcaac agggacaatt ggcaagcgtt tggccagcat cagtgtagag   60
aacattgaat ccaacaggcg agctcttagg gagctgcttt tctactgctcc tgggtgttctt  120
caatatctca gtggtgtcat cctctttgag gaaacctct accagagcac agctgcagga   180
cagnnctttg tgaatgtctt gaaggaagct ggtgtgcttc ctggcatcaa ggttgacaag  240
ggcacagtcg agcttgctgg aactaatg                                     268
```

<210>        1790

<211>        260

<212>        DNA

<213>        Glycine max

<400>        1790

```
ggttgacgga tgcctcctcc tcaacgccat taaccaggtc aatgggaaga agccatggtc   60
actctctttc tcctttggaa gggcacttca acagagcacc cttaaggcat ggggcgga   120
agaagagaat gtgaagaagg ctcaaggaagc ctttttggtta agagccaagg ctaactcaga  180
ggcaactctg ggaacctaca agggtaactc acagcttgct gatgggtgcct cagagagcct  240
ccatgtttcg aactacagct                                     260
```

<210>        1791

<211>        264

<212>        DNA

<213>        Glycine max

<400>        1791

```
caacctaccc ctttttcttc tcccaccaac ttcaccgtct tcttctctga tcatgtctca   60
cttcaagggc aagtaccatg atgagcttat tgtcaatgct gcttacattg gcaactcctgg  120
aaagggtatt cttgctgctg atgagtcaac agggacaatt gcaagcgttt ggccagcatc  180
agtgtagaga atgttgaatc caacaggcgt gctcttaggg agctgctttt caccgctccc  240
ggtgctctta aatatctcag tggt                                     264
```

<210>        1792

<211>        260

<212>        DNA

<213> Glycine max

<400> 1792

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ctctctcaac aacttcacct tcttcctcct cgatcatgtc ttacttcaag ggcaagtacc 60
atgatgagct tatcgccaat gctgcgtaca ttggcactcc tggaaagggg attcttgctg 120
ctgatgagtc aacagggaca attggcaagc gtttggccag catcagtgtg gagaacattg 180
aatccaacag gcgagctctt agggagctgc ttttactgc tcctggtggt cttcaatata 240
tcagtgggtg catcctcttt 260
```

<210> 1793

<211> 251

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)..(251)

<223> unsure at all n locations

<400> 1793

```
ggaggaggca tccgtcaacc tcaacgccat tnaccaggtc aatgggaaga agccatggtc 60
actctctttc tcctttggaa gggcacntca acagagcacc cttaaggcnt ggggcgga 120
agaagagaat gtgaagaagg ctcaggaagc ctttttggtg agagccaagg ctaactcaga 180
ggcaactctg ggaacctaca agggtaactc acagcttgct gatggtgcct cagagagcct 240
ccatgtttcg a 251
```

<210> 1794

<211> 286

<212> DNA

<213> Glycine max

<400> 1794

```
ctctcaagtc caacctaccc ctttttcttc tcccaccaac ttcaccgtct tcttcctcga 60
tcatgtctca cttcaagggc aagtaccatg atgagcttat tgtcaatgct gcttacattg 120
gcactcctgg aaagggtatt cttgctgctg atgagtcaac agggacaatt ggcaagcggt 180
tggccagcat cagtgtagag aatggtgaat ccaacaggcg tgctcttagg gagctgcttt 240
tcaccgctcc cggtgctctt aaatatctca gtggtgtcat cctctt 286
```

<210> 1795  
 <211> 251  
 <212> DNA  
 <213> Glycine max

<400> 1795

gaatgcctat ggcttggcca gatacgtgt catatgccag gagaatggcc tggttcccat 60  
 tgttgagcct gagatccttg ttgatggatc tcatgacatt cacaagtgtg ctgccgtcac 120  
 cgagcgtgtc cttgcagcat gctacaaggc tttgaatgat caccacgtcc ttcttgaggg 180  
 taccctattg aagccaaaca tggtcacccc cggatccaat tctgctaagg tttcccctca 240  
 ggtggttgcg g 251

<210> 1796  
 <211> 294  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(294)  
 <223> unsure at all n locations

<400> 1796

cnaacctctc aagtccaacc taccctttt tnttctccca ccaacttcac cgttcnnttc 60  
 ctcgatcatg tctcacttca agggcaagta ccatgatgag cttattgtca atgctgctta 120  
 cattggcact cctggaaagg gtattcttgc tgctgatgag tcaacaggga caattggcaa 180  
 gcgtttggcc agcatcagt tagagaaatgt tgaatccaac aggcgtgctc ttagggagct 240  
 gcttttcacc gctcccggtg ctcttaaata tctcagtggg gtcatectct ttga 294

<210> 1797  
 <211> 300  
 <212> DNA  
 <213> Glycine max

<400> 1797

tcggcattcg gctcgatctc aagtccaacc taccctttt tcttctccca ccaacttcac 60  
 cgtcttcttc ctcgatcatg tctcacttca agggcaagta ccatgatgag cttattgcca 120

atgctgctta cattggcact cctggaaagg gtattcttgc tgctgatgag tcaacaggga 180  
 caattggcaa gcgtttggcc agcatcagt tagagaatgt tgaatccaac aggcgtgctc 240  
 ttagggagct gcttttcacc gctcccgtg ctcttaaata tctcagtggg gtcctcctct 300

<210> 1798  
 <211> 294  
 <212> DNA  
 <213> Glycine max

<400> 1798

tgacgacaga aggggttgcc gagcacactg tcagagccct tcagagaacc gtgcttgctg 60  
 cagttcctgc tgcgttttc ttgtctggg gccagagtga ggaggatgca tccgtcaacc 120  
 tcaacgccat taaccaggtc aatgggaaga agccatgggc actctctttc tcctttggaa 180  
 gggcacttca acagagcacc ctttaaggcat ggggcggaaa agaagagaat gtgaagaagg 240  
 ctcaggaagc ccttttggtg agagccaagg ctaactcaga ggcaactctg ggaa 294

<210> 1799  
 <211> 242  
 <212> DNA  
 <213> Glycine max

<400> 1799

ctcacttcaa gggcaagtac catgatgagc ttatcgccaa tgctgcgtac attggcactc 60  
 ctggaaaggg tattcttgct gctgatgagt caacagggac aattggcaag cgttttggcca 120  
 gcatcagtgt agagaacatt gaatccaaca ggcgagctct tagggagctg cttttcactg 180  
 ctcttggtgt tcttcaatat ctcagtggg tcctcctctt tgaggaaacc ctctaccaga 240  
 gc 242

<210> 1800  
 <211> 269  
 <212> DNA  
 <213> Glycine max

<400> 1800

cacctacccc tttttcttct cccaccaact tcaccgtctt cttctctgat catgtctcac 60  
 ttcaagggca agtaccatga tgagcttatt gccaatgctg cttacattgg cactcctgga 120

aagggtattc ttgctgctga tgagtcaaca gggacaattg gcaagcgttt ggccagcatc 180  
 agtgtagaga atgttgaatc caacaggcgt gctcttaggg agctgctttt caccgctccc 240  
 ggtgctctta catatctcag tgggtgcat 269

<210> 1801  
 <211> 230  
 <212> DNA  
 <213> Glycine max

<400> 1801

ctcaggtggt tgccgagcac actgtcagag cccttcagag aaccgtgcct gctgcagttc 60  
 ctgctgtcgt tttcttgtct ggtggccaga gtgaggagga ggcacccgtc aacctcaacg 120  
 ccattaacca ggtcaatggg aagaagccat ggtcactctc tttctccttt ggaagggcac 180  
 ttcaacagag cacccttaag gcatggggcg gaaaagaaga gaatgtgaag 230

<210> 1802  
 <211> 246  
 <212> DNA  
 <213> Glycine max

<400> 1802

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 ctacaaggct ttgaatgac accatgtcct tcttgagggt accctattga agccatacat 180  
 ggtcaccctt ggatcccaat ctgctaaggt ttcccctcag gtggttgccg agcacactgt 240  
 cagagc 246

<210> 1803  
 <211> 262  
 <212> DNA  
 <213> Glycine max

<400> 1803

ctacaaggct ttgaatgac accatgtcct tcttgagggt accctattga agccaaacat 60  
 ggtcaccctt ggatcccaat ctgctaaggt ttcccctcag gtggttgccg agcacactgt 120  
 cagagccctt cagagaaccg tgccctgtgc agttcctgtc gtcgttttct tgtctggtgg 180

ccagagtgag gaggaggcat cegtcaacct caacgccatt aaccagggtca atgggaagaa 240  
gccatggtca ctctctttct cc 262

<210> 1804  
<211> 280  
<212> DNA  
<213> Glycine max

<400> 1804

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tgatgagctt atcgccaatg ctgcgtacat tggcactcct ggaaagggtta ttcttgctgc 120  
tgatgagtca acagggacaa ttggcaagcg ttggccagca tcagtgtaga gccattgaa 180  
tccaacaggc gagctcttag ggagctgctt ttcactgctc ctggtgttct tcaatatctc 240  
agtgggtgtca tcctctttga ggaaaccctc taccagagca 280

<210> 1805  
<211> 294  
<212> DNA  
<213> Glycine max

<400> 1805

caacctctca agtccaacct accccttttt cttctccac caacttcacc gtcttcttcc 60  
tcgatcatgt ctcacttcaa gggcaagtac catgatgagc ttattgcaa tgctgcttac 120  
attggcactc ctggaaaggg tattcttgct gctgtgagtc aacagggaca attggcaagc 180  
gtttggccag catcagtgtg gagaatgttg aatccaacag gcgtgctctt agggagctgc 240  
ttttcaccgc tcccgtgct cttaaatac tcagtgggtg catcctcttt gagg 294

<210> 1806  
<211> 290  
<212> DNA  
<213> Glycine max

<220>  
<221> unsure  
<222> (1)..(290)  
<223> unsure at all n locations

<400> 1806

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ctncacttcc aagggaagt accatgatga gcttatcgcc aatgctgctg acattggcac 120  
 tcctggaaag ggtattcttg ctgctgatga gtcaacaggg acaattggca agcgtttggc 180  
 cagcatcagt gtagagaaca ttgaatccaa caggcgagct ctagggagc tgcttttcac 240  
 tgctcctggg gttcttcaat atctcagtg tgctatcctc tttgaggaaa 290

<210> 1807  
 <211> 266  
 <212> DNA  
 <213> Glycine max  
 <400> 1807

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 cttcaagggc aagtaccatg atgagcttat cgccaatgct gcgtacattg gcactcctgg 120  
 aaaggggtatt cttgctgctg atgagtcaac agggacaatt ggcaagcggt tggccagcat 180  
 cagtgtagag aacattgaat ccaacaggcg agctcttagg gagctgcttt tcaactgctcc 240  
 tgggtgttctt caatatctca gtggtg 266

<210> 1808  
 <211> 258  
 <212> DNA  
 <213> Glycine max  
 <400> 1808

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 agaatggcct ggttcccatt gttgagcctg agatccttgt tgatggatct catgacattc 120  
 acaagtgtgc tgccgtcacc gagcgtgtcc ttgcagcatg ctacaaggct ttgaatgatc 180  
 accacgtcct tcttgagggt accctattga agccaaacat ggtcaccccc ggatccaatt 240  
 ctgctaaggt ttcccctc 258

<210> 1809  
 <211> 279  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1) .. (279)

<223>        unsure at all n locations

<400>        1809

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atgtctcact tcaagggcaa gtaccatgat gagcttatcg ccaatgctgc gtacattggc 120
actcctggaa aggggtattct ngctgctgat gagtcaacag ggacaattgg caagcgtttg 180
gccagcatca gtgtagagaa cattgaatcc aacaggcgag ctcttaggga gctgcttttc 240
actgctcctg gtgttcttca atatctcagt ggtgtcatc 279
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<210>        1810

<211>        244

<212>        DNA

<213>        Glycine max

<400>        1810

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tgccgagcac actgtcagag cccttcagag aaccgtgcct gctgcagttc ctgctgtcgt 120
tttcttgtct ggtggccaga gtgaggagga ggcattccgtc aacctcaacg ccattaacca 180
ggtcaatggg aagaagccat ggtcactctc tttctccttt ggaagggcac ttcaacagag 240
cacc 244
```

<210>        1811

<211>        264

<212>        DNA

<213>        Glycine max

<400>        1811

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cctctttttc ttctctctca acaacttcac etttcttctc ctgatcatg tctcatttca 60
agggcaagta ccatgatgag cttatcgcca atgctgcgta cattggcact cctggaaagg 120
gtattcttgc tgctgatgag tcaacaggga caattggcaa gcgtttggcc agcatcagt 180
tagagaacat tgaatccaac aggcgagctc ttagggagct gcttttact gctcctgggt 240
ttcttcaata tctcagtggg gtca 264
```

<210>        1812

<211>        269

<212>        DNA



<213> Glycine max  
 <400> 1812

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acttcaaggg caagtaccat gatgagctta tcgccaatgc tgcgtacatt ggcactcctg 120
gaaaggggat tcttgctgct gatgagtcaa cagggacaat tggcaagcgt ttggccagca 180
tcagtgtaga gaacattgaa tccaacaggc gagctcttag ggagctgctt ttcactgctc 240
ctggtgttct tcaatatctc agtggtgtc 269

```

<210> 1813  
 <211> 268  
 <212> DNA  
 <213> Glycine max  
 <220>  
 <221> unsure  
 <222> (1)..(268)  
 <223> unsure at all n locations  
 <400> 1813

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agggaagta ccatgatgag cttatcgcca atgctgogta cattggcact cctggaaagg 120
gtattcttgc tgctgatgag tcaacagggg caattggcaa gcgtttggcc agcatcagtg 180
tagagaacat tgaatccaac aggcgagctc ttagggagct gcttttcaact gctcctgggtg 240
ttcttcaata tctcagtggg gtcacctc 268

```

<210> 1814  
 <211> 271  
 <212> DNA  
 <213> Glycine max  
 <400> 1814

```

aacctacctc tttttcttct ctctcaacaa cttcaccttc ttctctctcg atcatgtctc 60
acttcaaggg caagtaccat gatgagctta tcgccaatgc tgcgtacatt ggcactcctg 120
gaaagcgtat tcttgctgct gatgagtcaa cagggacaat tggcaagcgt ttggccagca 180
tcagtgtaga gaacattgaa tccaacaggc gagctcttag ggagctgctt ttcactgctc 240
ctggtgttct tcaatatctc agtggtgtca t 271

```

<210> 1815  
 <211> 265  
 <212> DNA  
 <213> Glycine max

<400> 1815

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 caatctgcta aggtttcccc tcaggtgggt gccgagcaca ctgtcagagc ccttcagaga 120  
 accgtgcctg ctgcagttcc tgctgtcgtt ttcttgtctg gtggccagag tgaggaggag 180  
 gcatccgtca acctcaacgc cattaaccag gtcaatggga agaagccatg gtcactctct 240  
 ttctcctttg gaaggcact tcaac 265

<210> 1816  
 <211> 251  
 <212> DNA  
 <213> Glycine max

<400> 1816

ctgtcctggt tgttcttcaa tatctcagtt ctgtcatcct ctttgaggaa accctctacc 60  
 agagcacagc tgcaggcaag ccctttgtga atgtcttgaa ggaagctggt gtgcttctct 120  
 gcatcaaggt tgacaagggc acagtcgagc ttgctggaac taatggagaa accaccactc 180  
 agggctctaga tggccttggt cagcgttggt ccaagtacta cgaagctggt gcacgttttg 240  
 ccaaattggcg t 251

<210> 1817  
 <211> 265  
 <212> DNA  
 <213> Glycine max

<400> 1817

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 tgtcatcctc tttgaggaaa ccctctacca gagcacagct gcaggcaagc cctttgtgaa 180  
 tgtcttgaag gaagctggtg tgcttctctg catcaagggt gacaagggca cagtcgagct 240  
 tgctggaact aatggagaaa ccacc 265

<210> 1818  
 <211> 264  
 <212> DNA  
 <213> Glycine max

<400> 1818

tctcgagccg attcggctcg aggtgcctgc tgcagttcct gctgacgttt tcttgtctgg 60  
 aggccagagt gaggaggaga catccgtcaa cctcaacgcc attaaccagg tcaatgggaa 120  
 gaagccatgg tcactctctt tctcctttgg aagggcactt caacagagca cccttaaggc 180  
 atggggcgga aaagaagaga atgtgaagaa tgctcaggaa gcccttttgg taagagccaa 240  
 ggctaactca gaggcaactc tggg 264

<210> 1819  
 <211> 247  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(247)  
 <223> unsure at all n locations

<400> 1819

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 gatgagctta tcgccaatgc tgcgtacatt ggcactcctg gaaagggnat tcttgcctgt 120  
 gatgagtcaa cagggacaat tggcaagcgt ttggccagca tcagtgtaga gaacattgaa 180  
 tccaacaggc gagctcttag ggagctgctt ttcactgctc ctggtgttct tcaatatctc 240  
 agtggtg 247

<210> 1820  
 <211> 241  
 <212> DNA  
 <213> Glycine max

<400> 1820

attgaagcca aacatgggtca cccctggatc ccaatctgct aaggtttccc ctcaggtggt 60  
 tgccgagcac actgtcagag cccttcagag aaccgtgcct gctgcagttc ctgctgtcgt 120

tttcttgtct ggtggccaga gtgaggagga ggcattccgtc aacctcaacg ccattaacca 180  
 ggtcaatggg aagaagccat ggtcactctc tttctccttt ggaagggcac ttcaacagag 240  
 c 241

<210> 1821  
 <211> 267  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(267)  
 <223> unsure at all n locations

<400> 1821

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 acttcaaggg caagtaccat gatgagctta tcgccaatgc tgcgtacatt ggcactcctg 120  
 gaaaggggtat tcttgctgct gatgagtcaa cagggacaat tggcaagcgt ttggccagca 180  
 tcagtgtaga gaacattgaa tccaacaggc gagctcttag ggagctgctt ttcactgctc 240  
 ctggtgttcn tcaatatctc agtggtg 267

<210> 1822  
 <211> 268  
 <212> DNA  
 <213> Glycine max

<400> 1822

gtccaacctc cccctttttc ttctcccacc aacttcaccg tcttcttctc cgatcatgtc 60  
 tcacttcaag ggcaagtacc atgatgagct tattgccaat gctgcttaca ttggcactcc 120  
 tggaaagggt attcttgctg ctgatgagtc aacagggaca attggcaagc gtttggccag 180  
 catcagtgtg gagaatgttg aatccaacag gcgtgctctt agggagctgc ttttcaccgc 240  
 tcccgggtgct cttaaataac tcagtgtg 268

<210> 1823  
 <211> 266  
 <212> DNA  
 <213> Glycine max

<400> 1823

taacctacct ctttttcttc tctctcaaca acttcacctt cttcctcctc gatcatgtct 60  
 cacttcaagg gcaagtacca tgatgagctt atcgccaatg ctgcgtacat tggcactcct 120  
 ggaaagggta ttcttgctgc tgatgagtca acagggacaa ttggcaagcg tttggccagc 180  
 atcagtgtag agaacattga atccaacagg cgagctctta gggagctgct tttcactgct 240  
 cctggtgttc ttcaatatct cagtgg 266

<210> 1824  
 <211> 259  
 <212> DNA  
 <213> Glycine max

<400> 1824

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 tattcttgct gctgatgagt caacagggac aattggcaag cgtttggcca gcatcagtgt 180  
 agagaacatt gaatccaaca ggcgagctct tagggagctg cttttcactg ctcctggtgt 240  
 tcttcaatat ctcagtgg 259

<210> 1825  
 <211> 249  
 <212> DNA  
 <213> Glycine max

<400> 1825

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 gagcttatcg ccaatgctgc gtacattggc actcctggaa agggatttct tgctgctgat 120  
 gagtcaacag ggacaattgg caagcgtttg gccagcatca gtgtagagaa cattgaatcc 180  
 aacaggcgag ctcttaggga gctgcttttc actgctcctg gtgttcttca atatctcagt 240  
 ggtgtcatc 249

<210> 1826  
 <211> 272  
 <212> DNA  
 <213> Glycine max

<400> 1826

cgaagctggt gcacgttttg ccaaatggcg tgcagtgctg aagattgggc ccaacgagcc 60  
atctgagctg tctatccatg agaacgccta tggcttggt agatacgctg tcatatgccca 120  
ggagaatggc ctggttccca ttgttgagcc tgagatcctt gttgatggac ctcatgacat 180  
tcacaagtgt gccgccgtca ccgagcgtgt ccttgcagca tgctacaagg ctttgaatga 240  
tcaccatgtc cttcttgagg gtaccctatt ga 272

<210> 1827  
<211> 253  
<212> DNA  
<213> Glycine max

<400> 1827

gaacattgaa tccaacaggc gagctcttag ggagctgctt ttcactgctc ctggtgttct 60  
tcaatatctc agtgggtgtca tcctctttga ggaaaccctc taccagagca cagctgcagg 120  
caagcccttg tgaatgtctt gaaggaagct ggtgtgcttc ctggcatcaa ggttgacaag 180  
ggcacagtgc agcttgctgg aactaatgga gacaccacca ctcagggtct agcatggctt 240  
agtcagcgtt gtg 253

<210> 1828  
<211> 258  
<212> DNA  
<213> Glycine max

<400> 1828

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tcaagggcaa gtacatgat gagcttatcg ccaatgctgc gtacattggc actcctggaa 120  
agggattctt tgctgctgat gagtcaacag ggacaattgg caagcgtttg gccagcatca 180  
gtgtagagaa cattgaatcc aacaggcgag ctcttaggga gctgcttttc actgctcctg 240  
gtgttcttca atatctca 258

<210> 1829  
<211> 248  
<212> DNA  
<213> Glycine max

<400> 1829

gccaggagaa tggcctgggtt cccattggtg agcctgaggt ccttggtgat ggacctcgtg 60  
acattcacia gtgtgccgcc gtcaccgagc gtgtccttgc agcatgctac aaggctttgg 120  
gtgatcaccg tgtccttctt gagggtagcc tattgaagcc aaacatgggc acccctggat 180  
cccagtctgc taagggttcc cctcaggtgg ttgccgagca cactgtcaga gcccttcaga 240  
gaaccgtg 248

<210> 1830  
<211> 237  
<212> DNA  
<213> Glycine max

<400> 1830

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tgccgagcac actgtcagag cccttcagag aaccgtgcct gctgcagttc ctgctgtcgt 120  
tttcttgtct ggtggccaga gtgaggagga ggcacccgtc aacctcaacg ccattaacca 180  
ggtcaatggg aagaagccat ggtcactctc tttctccttt ggaagggcac ttcaaca 237

<210> 1831  
<211> 248  
<212> DNA  
<213> Glycine max

<400> 1831

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cccctcaggt ggttgccgac aactgttag agcccttcag agaaccgtgc ctgctgcagt 120  
tcctgctatc gttttcttgt ctggtgggca gagtgaggag gaggcacccg ttaacctcaa 180  
tgccattaac caggtcaatg gaaagaagcc atgggtcactc tctttctcct ttggaagggc 240  
acttcaac 248

<210> 1832  
<211> 252  
<212> DNA  
<213> Glycine max

<400> 1832

agtcggatct agctgcttac attggcactc ctggaaaggg tattcttgcg gctgatgagt 60

caacagggac aattggcaag cgtttggcca gcatcagtgt agagaatggt gaatccaaca 120  
ggcgtgctct tagggagctg cttttcaccg ctcccgggtgc tcttaaatat ctcagtgggtg 180  
tcatcctctt tgaggaaact ctctaccaga gtacagctgc aggcaacccc tttgtggaac 240  
tcttgaagga gg 252

<210> 1833  
<211> 264  
<212> DNA  
<213> Glycine max

<400> 1833

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tcacttcaag ggcaagtacc atgatgagct tategccaat gctgcgtaca ttggcactcc 120  
tggaagggtt attcttgcgt ctgatgagtc aacagggaca attggcaagc gtttggccag 180  
catcagtgtg gagaacattg aatccaacag gcgagctctt agggagctgc ttttactgc 240  
tcttgggtgtt cttcaatatc tcag 264

<210> 1834  
<211> 253  
<212> DNA  
<213> Glycine max

<400> 1834

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tcccctcagg tggttgccga gcacactgtc agagcccttc agagaaccgt gcctgctgca 180  
gttctgtctg tcgttttctt gtctggtggc cagagtgagg aggaggcatc cgtcaacctc 240  
aacgccatta acc 253

<210> 1835  
<211> 280  
<212> DNA  
<213> Glycine max

<400> 1835

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actcctggaa agggatttct tctgctgatg agtcaacagg gacaattggc aagcgtttgg 180  
ccagcatcag tgtagagaat gttgaatcca acaggcgtgc tcttagggag ctgcttttca 240  
ccgctccccg tgctcttaaa tatctcagtg gtgtcatcct 280

<210> 1836  
<211> 258  
<212> DNA  
<213> Glycine max

<400> 1836

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gcaagtacca tgatgagctt atcgccaatg ctgcgtacat tggcactcct ggaaagggta 120  
ttcttgctgc tgatgagtca acagggacaa ttggcaagcg tttggccagc atcagtgtag 180  
agaacattga atccaacagg cgagctctta gggagctgct tttcactgct cctggtgttc 240  
ttcaatatct cagtgggtg 258

<210> 1837  
<211> 242  
<212> DNA  
<213> Glycine max

<400> 1837

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atcgccaatg ctgcgtacat tggcactcct ggaaagggta ttcttgctgc tgatgagtca 120  
acagggacaa ttggcaagcg tttggccagc atcagtgtag agaacattga atccaacagg 180  
cgagctctta gggagctgct tttcactgct cctggtgttc ttcaatatct cagtgggtgc 240  
at 242

<210> 1838  
<211> 252  
<212> DNA  
<213> Glycine max

<400> 1838

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agggcaagta ccatgatgag cttatcgcca atgctgcgta cattggcact cctggaaagg 120  
gtattcttgc tgctgatgag tcaacagggg caattggcaa gcgtttggcc agcatcagtg 180  
tagagaacat tgaatccaac aggcgagctc ttagggagct gcttttcact gctcctggtg 240  
ttcttcaata tc 252

<210> 1839  
<211> 272  
<212> DNA  
<213> Glycine max

<220>  
<221> unsure  
<222> (1)..(272)  
<223> unsure at all n locations

<400> 1839

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aaaggggtatt cttgctgctg atgagtcaac agggacaatt ggcaagcggt tggccagcat 180  
cagtgtagag aacattgaat ccaacaggcg agctcttagg gagctgcttt nactgctcc 240  
tggtgntctt caatatctca ggtgtcatcc tc 272

<210> 1840  
<211> 246  
<212> DNA  
<213> Glycine max

<400> 1840

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aatctgctaa ggtttcccct caggtgggtg ccgagcacac tgtcagagcc cttcagagaa 120  
ccgtgcctgc tgcagttcct gctgtcgttt tcttgtctgg tggccagagt gaggaggagg 180  
catccgtcaa cctcaacgcc attaaccagg tcaatgggaa gaagccatgg tcaactctctt 240  
tctcct 246

<210> 1841  
<211> 252  
<212> DNA

<213> Glycine max  
 <400> 1841

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ctcttttttct tctctctcaa caacttcacc ttcttctctcc tcgatcatgt ctcacttcaa 60
gggcaagtac catgatgagc ttatcgccaa tgctgcgtac attggcactc ctggaaaggg 120
tattcttgct gctgatgagt caacagggac aattggcaag cgtttggcca gcatcagtgt 180
agagaacatt gaatccaaca ggcgagctct tagggagctg cttttcactg ctcttggtgt 240
tcttcaatat ct 252

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<210> 1842  
 <211> 251  
 <212> DNA  
 <213> Glycine max  
 <400> 1842

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ttcttgctgc tgatgagtca acagggacaa ttggcaagcg tttggccagc atcagtgtag 180
agaacattga atccaacagg cgagctctta gggagctgct tttcactgct cctggtgttc 240
ttcaatatct c 251

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<210> 1843  
 <211> 266  
 <212> DNA  
 <213> Glycine max

<220>  
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 <222> (1)..(266)  
 <223> unsure at all n locations

<400> 1843

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gcaagtacca tgatgagctt nttgccaatg ctgcttaent tggcactcct ggaaagggta 120
ttcttgctgc tgntgagtca acanggacaa ttggcaagcg tttggccagc atcagtgtan 180
agaatgttga ntccaacagg cgtgctctta gggagctgct tttncctgt cccggtgtct 240
ttaaatatct cagtgtgtct atctctc 266

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<210> 1844  
 <211> 258  
 <212> DNA  
 <213> Glycine max

<400> 1844

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 ttcttgctgc tgatgagtca acagggacaa ttggcaagcg tttggccagc atcagtgtag 180  
 agaacattga atccagcagg cgagctctta gggagctgct tttcactgct cctggtgttc 240  
 attcatatct cagggtgt 258

<210> 1845  
 <211> 265  
 <212> DNA  
 <213> Glycine max

<400> 1845

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 tcctggaaag ggtattcttg ctgctgatga gtcaacaggg acaattggca agcgtttggc 180  
 cagcatcagt gtagagaatg ttgaatccaa caggcgtgct cttagggagc tgcttttcac 240  
 cgctcccggt gctcttaa atctc 265

<210> 1846  
 <211> 278  
 <212> DNA  
 <213> Glycine max

<400> 1846

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 tacattggca ctctggaaa gggtttcttg ctgctgatga gtcaacaggg acaattggca 180  
 agcgtttggc cagcatcagt gtagagaatg ttgaatccaa caggcgtgct cttagggagc 240  
 tgcttttcac cgctcccggt gctcttaa atctcagt 278

<210> 1847  
 <211> 277  
 <212> DNA  
 <213> Glycine max

<400> 1847

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 ctctggatc agggatttct tgctgctgat gagtcaacag ggacaattgg caagcgtttg 180  
 gccagcatca gtgtagagaa tgttgaatcc aacaggcgtg ctcttaggga gctgcttttc 240  
 accgctcccg gtgctcttaa atatctcagt ggtgtca 277

<210> 1848  
 <211> 224  
 <212> DNA  
 <213> Glycine max

<400> 1848

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 gtgctcttaa atatctcagt ggtgtcatcc tctttgagga aactctctac cagagcacag 180  
 ctgcaggcaa gccctttctg gaagtcttga aggaggctgg tgtg 224

<210> 1849  
 <211> 238  
 <212> DNA  
 <213> Glycine max

<400> 1849

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 cttgctgctg atgagtcaac agggacaatt ggcaagcgtt tggccagcat cagtgtagag 180  
 aatgttgaat ccaacaggcg tgctcttagg gagctgcttt tcaccgctcc cggtgctc 238

<210> 1850  
 <211> 265

<212> DNA  
 <213> Glycine max

<400> 1850

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 atgtctcact tcaagggcaa gtaccatgat gagcttattg ccaatgatac ttacattggc 120  
 actcctggaa agggatttct tgctgctgat gagtcaacag ggacaattgg caagcgtttg 180  
 gccagcatca gtgtagagaa tgttgaatcc aacaggcggtg ctcttaggga gctgcttttc 240  
 accgctcccg gtgctcttaa atatc 265

<210> 1851  
 <211> 271  
 <212> DNA  
 <213> Glycine max

<400> 1851

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 aaaggggtatt cttgctgctg atgagtcaac agggacaatt ggcaagcggt tggccagcat 180  
 cagtgtagag aacattgaat ccaacaggcg agctcttagg gagctgcttt tcaactgctcc 240  
 tgggtgttctt caatattcag tgggtgtcatc c 271

<210> 1852  
 <211> 261  
 <212> DNA  
 <213> Glycine max

<400> 1852

gtcaccgagc gtgtccttgc agcatgctac aaggctttga atgatcacca tgtccttctt 60  
 gagggtagcc tattgaagcc aaacatgggtc acctgggac ccaatctgct aaggtttccc 120  
 ctcaggtggg tgcgagcaca ctgtcagagc cttcagaga accgtgctg ctgcagttcc 180  
 tgctgtcggt ttcttgtctg gtggccagag tgaggaggag gcatccgtca acctcaacgc 240  
 cattaaccag tcaatgggaa g 261

<210> 1853  
 <211> 261

<212> DNA  
 <213> Glycine max  
  
 <220>  
 <221> unsure  
 <222> (1)..(261)  
 <223> unsure at all n locations  
  
 <400> 1853  
  
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 tcgatcatgt ctcaattcaa gggcaagtac catgatgagc ttattgcaa tgctgcttac 120  
 attggcactc ctggaaaggg tattcttgct gctgatgagt caacagggac aattggcaag 180  
 cgtttggcca gcatcagtgt agagaatgtt gaatccaaca ggcgtgctct tagggagctg 240  
 cttttcaccg ctcccgtgc t 261

<210> 1854  
 <211> 240  
 <212> DNA  
 <213> Glycine max  
  
 <400> 1854  
  
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 atgatgagct tatcgccaat gctgcgtaca ttggcactcc tggaagggtt attcttgctg 120  
 ctgatgagtc aacagggaca attggcaagc gtttggccag catcagtgtg gagaatattg 180  
 aatccaacag gcgagctctt agggagctgc ttttactgc tctgggtctt cttcaatata 240

<210> 1855  
 <211> 234  
 <212> DNA  
 <213> Glycine max  
  
 <400> 1855  
  
 gagtcaacag ggacaattgg caagcgtttg gccagcatca gtgtagagaa cattgaatcc 60  
 aacaggcgag ctcttaggga gctgcttttc actgctcctg gtgttcttca atatctcagt 120  
 ggtgtcatcc tctttgagga aaccctctac cagaggacag ctgcaggcaa gccctttgtg 180  
 aatgtcttga aggaagctgg tgtgcttcct ggcataagg ttgacaaggg caca 234

<210> 1856

<211> 261  
 <212> DNA  
 <213> Glycine max  
  
 <400> 1856  
  
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 atgtctcact tcaagggcaa gtaccatgat gagcttattg ccaatgctgc ttacattggc 120  
 actcctggaa agggatttct tgctgctgat gagtcaacag ggacaattgg caagcgtttg 180  
 gccagcatca gtgtagagaa tgttgaatcc aacaggcgtg ctcttaggga gctgcttttc 240  
 accgctcccg gtgctcttaa a 261

<210> 1857  
 <211> 260  
 <212> DNA  
 <213> Glycine max  
  
 <400> 1857  
  
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 atgtctcact tcaagggcaa gtaccatgat gagcttattg ccaatgctgc ttacattggc 120  
 actcctggaa agggatttct tgctgctgat gagtcaacag ggacaattgg caagcgtttg 180  
 gccagcatca gtgtagagaa tgttgaatcc aacaggcgtg ctcttaggga gctgcttttc 240  
 accgctcccg gtgctcttaa 260

<210> 1858  
 <211> 242  
 <212> DNA  
 <213> Glycine max  
  
 <220>  
 <221> unsure  
 <222> (1)..(242)  
 <223> unsure at all n locations  
  
 <400> 1858  
  
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 tgagggtacc ctattgaagc caaacatggt cacccttgga tccaatctg cnaaggtttc 120  
 ccctcaggtg gttgccgagc aactgtcag agcccttcag agaaccgtgc ctgctgcagt 180  
 tctgctgtgc gntttcttgt ctggtggcca gagtgaggag gaggcacccg tcaacctcaa 240



cg

242

<210> 1859  
<211> 266  
<212> DNA  
<213> Glycine max

<400> 1859

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cttcaagggc aagtaccatg atgagcttat cgccaatgct gcgtacattg gcactcctgg 120  
aaaggggtatt cttgctgctg atgagtcaac agggacaatt ggcaagcggt tggccagcat 180  
cagtgtagag aacattgaat ccaacaggcg agctcttagg gagctgcttt tcaactgctcc 240  
tggtgttctt caatatctca gtggtg 266

<210> 1860  
<211> 260  
<212> DNA  
<213> Glycine max

<400> 1860

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aagtaccatg atgagcttat cgccaatgct gcgtacattg gcactcctgg aaaggggtact 120  
cttgctgctg atgagcaaca gggacaattg gcaagcggtt ggccagcatc agtgtagaga 180  
accttgaatc caacaggcga gctcttaggg agctgctttt cactgctcct ggtgttcttc 240  
aatatctcag tgggtgcac 260

<210> 1861  
<211> 264  
<212> DNA  
<213> Glycine max

<400> 1861

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tctcacttca agggcaagta ccatgatgag cttatcgcca atgctgcgta cattggcact 120  
cctggaaagg gtattttgct gctgatgagt caacaggggac aattggcaag cgtttggcca 180  
gcatcagtgt agagaacatt gaatccaaca ggcgagctct tagggagctg cttttcactg 240

ctcctggtgt tcttcaatat ctca 264

<210> 1862  
<211> 256  
<212> DNA  
<213> Glycine max

<400> 1862

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tcaattcaag ggcaagtacc atgatgagct tattgccaat gctgcttaca ttggcactcc 120  
tggaagggt attcctgctg ctgatgagtc aacagggaca attggcaagc gtttggccag 180  
catcagtgtg gagaatgttg aatccaacag gcgtgctctt agggagctgc ttttcaccgc 240  
tcccgtgct cttaaa 256

<210> 1863  
<211> 256  
<212> DNA  
<213> Glycine max

<400> 1863

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ttcaaggga agtaccatga tgagcttata gccaatgctg cgtacattgg cactcctgga 120  
aagggtattc ttctgctgat gagtcaacag ggacaattgg caagcgtttg gccagcatca 180  
gtgtagagaa cattgaatcc aacaggcgag ctcttaggga gctgcttttc actgctcctg 240  
gtgttcttca atatct 256

<210> 1864  
<211> 247  
<212> DNA  
<213> Glycine max

<400> 1864

ccgtcacga gcgtgtcctt gcagcatgct acaaggcttt gaatgatcac cactccttc 60  
ttgagggtac cctattgaag ccaaactatg tccccccg atccaattct gctaaggctt 120  
cccctcaggt gggtgctgag aactgttag agcccttcag agaaccgtgc ctgctgcagt 180  
tctgctatc gttttcttgt ctggtgggca gagtgaggag gaggcacccg ttaacctcaa 240

tgccatt

247

<210> 1865  
<211> 256  
<212> DNA  
<213> Glycine max  
  
<400> 1865

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tggcactcct ggaaagggta ttcttgctgc tgatgagtca acagggacaa ttggcaagcg 120  
tttggccagc atcagtgtag agaacattga atccaacagg cgagctctta gggagctgct 180  
tttcaactgct cctgggtgttc ttcaatatct catgggtgtca tcctctttga ggaaaccctc 240  
taccagagca cagctg 256

<210> 1866  
<211> 266  
<212> DNA  
<213> Glycine max  
  
<400> 1866

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aggctcagga agcccttttg gtaagagcca aggccaactc agaggcaact ctgggaacct 120  
acaagggtaa ctcaaagctt gctgatgggtg cctcagagag cctccatggt gaggactaca 180  
agtactgata aatctaagtg cgggtaggaa tcgggtatttt atgggtacaa ccgaattttc 240  
ttgttaatga gtattgtgct tcgact 266

<210> 1867  
<211> 247  
<212> DNA  
<213> Glycine max  
  
<400> 1867

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cctggaaagg gtattcttgc tgctgatgag tcaacaggga caattggcaa gcgtttggcc 180  
agcatcagtg tagagaacat tgaatccaac aggcgagctc ttagggagct gcttttcact 240

gctcctg

247

<210> 1868  
<211> 264  
<212> DNA  
<213> Glycine max  
  
<220>  
<221> unsure  
<222> (1)..(264)  
<223> unsure at all n locations

<400> 1868

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aagggatttc ttgctgctga tgagtcaaca gggacaattg gcaagcgttt ggccagcatc 180  
agtgtagaga acattgaatc caacaggcga gctcttaggg agctgctttt cactgctcct 240  
ggtgttcttc aatatctcag tggt 264

<210> 1869  
<211> 269  
<212> DNA  
<213> Glycine max

<400> 1869

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atgtctcact tcaagggcaa gtaccatgat gagcttattg ccaatgctgc ttacattggc 120  
actcctggaa agggatttct tgctgctgat gagtcaacag ggacaattgg caagcgtttg 180  
gccagcatca gtgtagagaa tggtgaatcc aacaggcgtg ctcttaggga gctgcttttc 240  
accgtaccg gtgctcttaa atatctcag 269

<210> 1870  
<211> 250  
<212> DNA  
<213> Glycine max

<400> 1870

cctcgagctc gattcggctc gagggccaag taccatgatg agcttacgcg ccaatgctgc 60

gaccattggc actcctggaa agggatttct tgctgctgat gagtcaacag ggacaattgg 120  
 ctgcggtttg gccagcatca gtgtagagaa cattgaatcc aacaggcgag ctcttaggga 180  
 gctgcttttc actgctcctg gtgttcttca atatctcagt ggtgtcatcc tctttgagga 240  
 aaccctctac 250

<210> 1871  
 <211> 259  
 <212> DNA  
 <213> Glycine max

<400> 1871

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 atctcacttc aagggaagt accatgatga gcttattgcc aatgctgctt acattggcac 120  
 tcctggaaag ggtattcttg ctgctgatga gtcaacaggg acaattggca agcgtttggc 180  
 cagcatcagt gtagagaatg ttgaatcaa caggcgctgct ctagggagc tgcttttcac 240  
 cgctcccggt gctcttaaa 259

<210> 1872  
 <211> 249  
 <212> DNA  
 <213> Glycine max

<400> 1872

ccaacctacc ctttttctt ctcccaccaa cttcaccgtc atcttctctg atcatgtctc 60  
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 gaaagggat tcttgctgct gatgagtcaa cagggacaat tggcaagcgt ttggccagca 180  
 tcagtgtaga gaatgttgaa tccaacaggc gtgctcttag ggagctgctt atcaccgctc 240  
 ccggtgctc 249

<210> 1873  
 <211> 243  
 <212> DNA  
 <213> Glycine max

<400> 1873

ctcaagtcca acctaccct ttttcttctc ccaccaactt caccgtcttc ttctcgatc 60

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actcctggaa aggggtattct tgctgctgat gagtcaacag ggacaattgg caagcgtatg 180  
gctcgcatca gtgtagagaa tgttgaatcc aacaggcgtg ctcttaggga gctgcttttc 240  
acc 243

<210> 1874  
<211> 254  
<212> DNA  
<213> Glycine max

<220>  
<221> unsure  
<222> (1)..(254)  
<223> unsure at all n locations

<400> 1874

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tggcactcct ggaaagggta ttcttgctgc tgatgagtca acagggncaa ttggcaagcg 180  
tttggccagc atcngtgtag anaatgttga atccnacagg cgtgctctta gggagctgct 240  
tttcaccgct cccg 254

<210> 1875  
<211> 252  
<212> DNA  
<213> Glycine max

<400> 1875

aacctacctc tttttcttct ctctcaacaa cttcacctac ttctctctcg atcatgtctc 60  
acttcaaggg caagtaccat gatgagctta tcgccaatgc tgcgtacatt ggcactcctg 120  
gaaagggcat tcttgctgct gaggagtcaa cagggacaat tggcaagcgt ttggccagca 180  
tcagtgtcga gaacattgaa tccaacaggc gagctcttag ggagctgctt ttcactgctc 240  
ctggtgttcc cc 252

<210> 1876  
<211> 294  
<212> DNA  
<213> Glycine max

<400> 1876

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tcgattcatg tctcacttca aggggcaagt accatgatga gcttattgcc aatgctgctt 120  
acattggcac tcttggaag ggtattcttg ctgctgatga gtcaacaggg acaattggca 180  
agcgtttggc cagcatcagt gtagagaatg ttgaatccaa caggcgtgct cttaggagc 240  
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<210> 1877

<211> 244

<212> DNA

<213> Glycine max

<400> 1877

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gtgtagagaa cattgaatcc aacaggcgag ctcttaggga gctgcttttc actgctcctg 180  
gtgttcttca atatctcagt ggtgtcatcc tctttgagga aaccctctac cagagcacag 240  
ctgc 244

<210> 1878

<211> 244

<212> DNA

<213> Glycine max

<400> 1878

ctcaagtcca acctaccct ttttcttctc ccaccaactt caccgtcttc ttctcgatc 60  
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actcctggaa agggattct tgctgctgat gagtcaacag ggacaattgg caagcgtttg 180  
gccagcatca gtgtagagaa tgttgaatcc aacaggcgtg ctcttaggga gctgcttttc 240  
accg 244

<210> 1879

<211> 259

<212> DNA

<213> Glycine max

<400> 1879

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cattggcact ctggaaaggg tattcttgct gctgatgagt caacagggac aattggcaag 180  
cgtttggcca gcatcagtgt agagaatgtt gaatccaaca ggcgtgctct tagggagctg 240  
cttttcaccg ctcccgggtg 259

<210> 1880

<211> 258

<212> DNA

<213> Glycine max

<400> 1880

gtccaacctc cccctttttc ttctcccacc aacttcaccg tcttcttctc cgatcatgtc 60  
tcacttcaag ggcaagtacc atgatgagct tattgccaat gctgcttaca ttggcactcc 120  
tggaaggggt attcttgctg ctgatgagtc aacagggaca attggcaagc gtttggccag 180  
catcagtgtg gagaatgttg aatccaacag ggcgtgctctt agggagctgc ttttcaccgc 240  
tcccgggtgct cttaaata 258

<210> 1881

<211> 268

<212> DNA

<213> Glycine max

<400> 1881

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tgccagagtg gaggaggagg acatccgtca acctcaacgc cattaaccag gtcaatggga 120  
agaagccatg gtcaactctc ttctcctttg gaagggcact tcaacagagc acccttaagg 180  
catggggcgg aaaagaagag aatgtgaaga aggctcagga agcccttttg gtaagagcca 240  
aggctaactc agaggcaact ctgggaac 268

<210> 1882

<211> 251

<212> DNA

<213> Glycine max



<400> 1882

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caagtaccat gatgagctta tcgccaatgc tgcgtacatt ggcactcctg gaaagggat 120  
tcttgctgct atgagtcaac agggacaatt ggcaagcgtt tggccagcat cagtgtagag 180  
aacattgaat ccaacaggcg agctcttagg gagctgcttt tcactgctcc tgggtgttctt 240  
caatatctca g 251

<210> 1883

<211> 239

<212> DNA

<213> Glycine max

<400> 1883

caggtgagtt cttagggagc tgctttttcac tgctcctggg gttcttcaat atctcagtg 60  
tgtcatcctc tttgaggaaa cctctacca gagcacagct gcaggcaagc cctttgtgaa 120  
tgtcttgaag gaagctgggtg tgcttcctgg catcaagggt gacaagggca cagtcgagct 180  
tgctggaact aatggagaaa ccaccactca gggcttagat ggccttggtc agcgttgtg 239

<210> 1884

<211> 261

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)..(261)

<223> unsure at all n locations

<400> 1884

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tnacttncaa gggcaagtac catgatgagc ttatcgcaa tgctgcgtac attggcactc 120  
ctggaaaggg tattcttgtg ctgatgagtc aacagggaca attggcaagc gtttggccag 180  
catcagtgtg gagaacattg aatccaacag gcgagctctt agggagctgc ttttcactgc 240  
tcctgggtgtt cttcaatatc t 261

<210> 1885

<211> 239  
 <212> DNA  
 <213> Glycine max

<400> 1885

ccaacctctc aagtccaacc taccctttt tttcttcca ccaacttcac cgtcctcttc 60  
 ctogatcatg tctcacttca agggcaagta ccatgatgag cttattgcca atgctgctta 120  
 cattggcact cctggaaagg gtattcttgc tgetgatgag tcaacaggga caattggcaa 180  
 gcgtttggcc agcatcagt tagagaatgt tgaatccaac aggcgtgctc ttagggagc 239

<210> 1886  
 <211> 256  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(256)  
 <223> unsure at all n locations

<400> 1886

ctttcttcca acctctcaag tccacactac ccctttttct tctccacca acttcaccga 60  
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 ctgcttacat tggcactcct ggaaagggtg ttcttgetgc tgatgagtca acagggacaa 180  
 ttggcaagcg tttggccagc atcagtgtag agaattgttg atccaacagg cgtgctctta 240  
 gggagctgct tttcac 256

<210> 1887  
 <211> 264  
 <212> DNA  
 <213> Glycine max

<400> 1887

acctacctct ttttcttctc totcaacaac ttcaccttct tctcctcga tcatgtctca 60  
 cttcaagggc aagtaccatg atgagcttat cgccaatgct gcgtacattg gcaactcctgg 120  
 acagggtatt cttgctgctg atgagtcaac agggacaatt ggcaagcgtt tggccagcat 180  
 cagtgtagag aacattgaat ccaacaggcg agctcttagg gagctgcttt tcaactgctcc 240  
 tgggtgttctt caatatctca gtgg 264

<210> 1888  
 <211> 255  
 <212> DNA  
 <213> Glycine max

<400> 1888

ctaacctacc tctttttctt ctctctcaac aacttcacct tcttcctcct cgatcatgtc 60  
 tcacttcaag ggcaagtacc atgatgagct tategccaat gctgcgtaca ttggcactcc 120  
 tggaaagggt attttgctgc tgatgagtca acagggacaa ttggcaagcg tttggccagc 180  
 atcagtgtag agaacattga atccaacagg cgagctctta gggagctgct tttcactgct 240  
 cctggtgttc ttcaa 255

<210> 1889  
 <211> 254  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(254)  
 <223> unsure at all n locations

<400> 1889

ctttcttcca acctctcaag tccaacctac ccctttttct tctcncacca acttcaccgt 60  
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 ctgcttacat tgcactcctg gaaagggtat tcttgctgct gatgagtcaa cagggacaat 180  
 tggcaagcgt ttggccagca tcagtgtaga gaatgttgaa tccaacaggc gtgctcttag 240  
 ggagctgctt ttca 254

<210> 1890  
 <211> 255  
 <212> DNA  
 <213> Glycine max

<400> 1890

cctacctctt tttcttctct ctcaacaact tcaccttctt cctcctcgat catgtctcac 60  
 ttcaagggca agtaccatga tgagcttata gccaatgctg cgtacattgg cactcctgga 120

aagggtattc ttgctgctga tgagtcaaca gggacaattg gcaagcgttt ggccagcatc 180  
 agtgtagaga acattgaatc caacaggcga gctcttaggg agctgctttt cactgctcct 240  
 ggtgttcttc aatat 255

<210> 1891  
 <211> 238  
 <212> DNA  
 <213> Glycine max

<400> 1891

cctcgagccg aatcggctcg agcacttcaa gggcaagtac catgacgagc ttattgtcaa 60  
 acctgcttac attggcactc ctggaaaggg tattcttgct gctgatgagt caacagggac 120  
 aattggcaag cgtttggcca gcatcagtgt agagaatgtt gaatccaaca ggcgtgctct 180  
 tagggagctg cttttcacccg ctcccgggtgc tcttaaatat ctcagtgggtg tcatcctc 238

<210> 1892  
 <211> 271  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(271)  
 <223> unsure at all n locations

<400> 1892

ggcctgggtc ccattgttga gcctgagatc cttgttgatg gacctcatga cattcacaag 60  
 tgtgccgccc tcaccgagcg tgtccttgca gcatgctaca aggctttgaa tgatcaccat 120  
 gtccttcttg agggtaacct attgaagcca aacatgggtca ccctgggatc ccaatctgct 180  
 aaggtttccc ctcaggtggg tgccgagcaa atgtcagagc cttcagagaa cgggtgcctgc 240  
 tgcagtccctg ngtcgttttc tggnnngggg g 271

<210> 1893  
 <211> 283  
 <212> DNA  
 <213> Glycine max

<400> 1893

ctctaacctc cctctttttc ttctctctca acaacttcac cttctacctc ctcgatcatg 60

tctcacttca agggcaagta ccatgatgag cttatcgcca atgctgcgta cattggcact 120  
 cctggaaagg gtattcttgc tgctgatgag tcaacaggga caattggcaa gcgtttggcc 180  
 agcatcagtg tagagaacat cgaatccaac aggcgagctc ttagggagct gcttttctact 240  
 gctcctgggtg ttcttcaata tctcagtact gtcacacctt ttg 283

<210> 1894  
 <211> 253  
 <212> DNA  
 <213> Glycine max  
 <400> 1894

tttcttccaa cctctcaagt ccaacctacc cttttttctt ctcccaccaa cttcaccgct 60  
 actcttctct gatcatgtct cacttcaagg gcaagtacca tgatgagctt attgccaatg 120  
 ctgcttacat tggcactcct ggaaagggtg ttcttgctgc tgatgagtca acagggacaa 180  
 ccggcaagcg tttggccagc atcagtgtag agaatggtga atccaacagg cgtgctctta 240  
 gggagctgct ttt 253

<210> 1895  
 <211> 242  
 <212> DNA  
 <213> Glycine max  
 <400> 1895

ctttcttcca acctctcaag tccatctctac ccctttttct tctcccacca acttcaccgt 60  
 acacttctct gatcatgtct cacttcaagg gcaagtacca tgatgagctt attgccaatg 120  
 ctgcttacat tggcactcct ggaaagggtg ttcttgctgc tgatgagtca acagggacaa 180  
 ttggcaagcg tttggccagc atcagtgtag agaatggtga atccaacagg cgtgctctta 240  
 gg 242

<210> 1896  
 <211> 257  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1) .. (257)

<223>        unsure at all n locations

<400>        1896

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ctctaacctt cctctttntc ttctctctca acaacttcac cttcttcctc ctncgatcat   60
gtctccactt caagggcaag taccatgatg agcttatcgc caatgctgcg tacattggca  120
ctcctggaaa ggggtattctt gctgctgatg agtcaacagg gacaattggc aagcgtttgg  180
ccagcatcag ttagagagaac attgaatcca acaggcgagc tcttagggag ctgcttttca  240
ctgctcctgg tggttctt                                     257
```

<210>        1897

<211>        248

<212>        DNA

<213>        Glycine max

<220>

<221>        unsure

<222>        (1)..(248)

<223>        unsure at all n locations

<400>        1897

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cttccaacct ctcaagtcca acctaccnct tttctttctc ccaccaactt caccgtcctt   60
cttctctgat catgtctcac ttcaagggca agtaccatga tgagcttatt gccaatgctg  120
cttacattgg cactcctgga aaggggtattc ttgctgctga tgagtcaaca gggacaattg  180
gcaagcgttt ggccagcatc agtgtagaga atgttgaatc caacaggcgt gctctaggga  240
gctgcttt                                     248
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<210>        1898

<211>        243

<212>        DNA

<213>        Glycine max

<400>        1898

```
cttctctctc aacaacttca cttctttcct cctcgatcat gtctcacttc aagggcaagt   60
accatgatga gcttatcgcc aatgctgcgt acattggcac tcctggaaag ggtattcttg  120
ctgctgatga gtcaacaggg acaattggca agcgtttggc cagcatcagt gtagagaaca  180
ttgaatccaa caggcgagct cttagggagc tgcttttcac tgctcctggg gttcttcaat  240
atc                                             243
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<210> 1899  
 <211> 268  
 <212> DNA  
 <213> Glycine max

<400> 1899

gccattaacc aggtcaatgg aaagaagcca tggtcactct ctttctcctt tggaaggcca 60  
 cttcaacaga gcacccttaa ggcattggagt ggaaaagagg agaattgtgaa gaaggctcag 120  
 gaagcccttt tggtaagagc caaggccaac tcagaggcaa ctctgggaac ctacaagggt 180  
 aacttcaaag cttgctgatg gtgcctcaga gagcctccag ttgaggacta caattactga 240  
 ttcaatctaa gtgcgggtag gaatcggg 268

<210> 1900  
 <211> 253  
 <212> DNA  
 <213> Glycine max

<400> 1900

tgctgatgag tcaacagga caattggcaa gcgtttggcc agcatcagtg tagagaatgt 60  
 tgaatccaac aggctgtctc ttagggagct gcttttcacc gctcccggtg ctctgtaaata 120  
 tctcagtggt gtcactctct ttaaggaaac tctctaccag agcacagctg caggcaagcc 180  
 ctttgtggaa gtcttgaatg aggctgggtg tcttctcggc atcaagggtt acagggcaca 240  
 gtttcgcttg ctg 253

<210> 1901  
 <211> 228  
 <212> DNA  
 <213> Glycine max

<400> 1901

cggctcgagg gtcacccccg gatccaattc tgctaagggt tcccctcagg tggttgcgga 60  
 gacactgtta gagcccttca gagaaccgtg cctgctgcag ttctgctat cgttttcttg 120  
 tctggtgggc agagtgagga ggaggcatcc gttaacctca atgccattaa ccagggtcaat 180  
 ggaaagaagc catggtcact ctctttctcc tttggaaggg cacttcaa 228

<210> 1902  
 <211> 252  
 <212> DNA  
 <213> Glycine max

<400> 1902

caacttcacc gtcttcttcc tcgatcatgt ctcaacttcaa gggcaagtac catgatgagc 60  
 ttattgccaa tgctgcttac attggcactc ctggaaaggg tattcttgct gctgatgagt 120  
 caacagggac aattggcaag cgtttggcca gcatcagtgt agagaatggt gaatccaaca 180  
 ggcgtgctct tagggagctg cttttcaccg ctcccgggtgc tcttaaatat ctcaagtgggtg 240  
 tcatcctctt tg 252

<210> 1903  
 <211> 245  
 <212> DNA  
 <213> Glycine max

<400> 1903

tttcttccaa cctctcaagt ccaacctacc cttttttctt ctcccaccaa cttcacgcgc 60  
 tacttcctcg atcatgtctc acttcaaggg caagtaccat gatgagctta ttgccaatgc 120  
 tgcttacttg gcactcctgg aaaggggtatt cttgctgctg atgagtcaac agggacaatt 180  
 ggcaagcggt tggccagcat cagtgtagag aatggtgaat ccaacaggcg tgctcttagg 240  
 gagct 245

<210> 1904  
 <211> 255  
 <212> DNA  
 <213> Glycine max

<400> 1904

atcatgtctc acttcaaggg caagtaccat gatgagctta tcgccaatgc tgcgtacatt 60  
 ggcactcctg gaaaggggtat tcttgctgct gatgagtcaa cagggacaat tggcaagcgt 120  
 atgccagcat cagtgtagag aacattgaat ccaacaggcg agctcttagg gagctgcttt 180  
 tcactgctcc ggggtgttctt caatatctca gtggtgtcat cctctttgag gaaaccctct 240  
 accagagcac agctg 255



<210> 1905  
 <211> 233  
 <212> DNA  
 <213> Glycine max  
  
 <400> 1905  
  
 caacctctca agtccaacct accccttttt cttctccac caacttcacc gtcttcttcc 60  
 tcgatcatgt ctcaattcaa gggcaagtac catgatgagc ttattgccaa tgctgcttac 120  
 attggcactc ctggaaaggg tattcttgct gctgatgagt caacagggac aattggcaag 180  
 cgtttagcca gcatcagtgt agagaatgtt gaatccaaca ggcgtgctct tag 233

<210> 1906  
 <211> 237  
 <212> DNA  
 <213> Glycine max  
  
 <400> 1906  
  
 ctttttcttc tctctcaaca acttcacctt cttctcctc gcatccgtct cacttcaagg 60  
 gcaagtacca tgatgagctt atcgccaatg ctgcgtacat tggcactcct ggaaagggta 120  
 ttcttgaagc tgatgagtca acagggacaa ttggcaagcg tttggccagc atcagtgtag 180  
 agaacattga atccaacagg cgagctctta gggagctgct tttcactgct cctgggtg 237

<210> 1907  
 <211> 237  
 <212> DNA  
 <213> Glycine max  
  
 <400> 1907  
  
 tctcgagccg attcggctcg agetaaccta cctctttttc ttctctcgca acaacttcac 60  
 ctacttcctc ctgatcatg tcacacttca agggcaagta ccatgatgag cttatcgcca 120  
 atgctgcgta cattggcact cctggaaagg gtattcttgc tgctgatgag tcaacaggga 180  
 caattggcaa gcgtttggcc agcatcagtg tagagaacat tgaatccaac aggcgag 237

<210> 1908  
 <211> 243  
 <212> DNA  
 <213> Glycine max  
  
 <400> 1908

ctccttttga agggcacttc aacagagcac ccttaaggca tggggcggaa aataagagaa 60  
 tgtgaagaag gctcaggaag cccttttggg aagagccaag gctaactcag aggcaactct 120  
 gggaccctac aagggttaact cacagcttgc tgatggtgcc tcagagagcc tccatgtttc 180  
 gaactacagc tactgatcaa tcgaagttgg tgttgtttga agagactagt gcgagtagga 240  
 atc 243

<210> 1909  
 <211> 249  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)...(249)  
 <223> unsure at all n locations

<400> 1909

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 nncttacatt ggcactcctg gaaagggat tcttgctgct gatgagtcaa cagggacaat 180  
 tggcaagcgt ttggccagca tcagtgtaga gaatgaatcc aacaggcgtg ctcttaggga 240  
 gctgctttt 249

<210> 1910  
 <211> 242  
 <212> DNA  
 <213> Glycine max

<400> 1910

cctctaacct acctctttag cttctctctc aacaacttca cttcttctct cctcgatcat 60  
 gtctcacttc aagggaagt accatgatga gcttatcgcc aatgctgcgt acattggcac 120  
 tcttggaag ggtattcttg ctgctgatga gtcaacaggg acaattggca agcgtttggc 180  
 cagcatcagt gtagagaaca ttcaatccaa caggcgagct tagggagctg cttttcactg 240  
 ct 242

<210> 1911

<211> 248  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(248)  
 <223> unsure at all n locations

<400> 1911

cnttggaagg gcacttcaac agagcaccct taaggcatgg gacngaaaag aagagaatgt 60  
 gaagnaggct caggaagccc tnntggtaag agccaaggct aactcanagg caactctggg 120  
 aacctacaag ggtaactcac agcttgctga tggcgcctca gagagcctcc atgtttcgaa 180  
 ctaagctact gatcaatcga agttggtggt gtttgaagag nctagtgcga gtaggaatcg 240  
 gtattatg 248

<210> 1912  
 <211> 243  
 <212> DNA  
 <213> Glycine max

<400> 1912

ctcctttgga agggcacttc aacagagcac ccttaaggca tgaggcggaa aagaagagaa 60  
 tgtgaagaag gctcaggaag cccttttggt aagagccaag gctaactcag aggcaactct 120  
 gggaacctac aagggttaact cacagcttgc tgatggtgcc tcagagagcc tccatgtttc 180  
 gaactacagc tattgtcaat cgagttgggg gtggtttaag agacctagtt cgagtaggaa 240  
 tcg 243

<210> 1913  
 <211> 261  
 <212> DNA  
 <213> Glycine max

<400> 1913

gaagaaggct caggaagccc ttttggtaag agccaaggcc aactcagagg caactctggg 60  
 aacctacaag ggtaactcaa agcttgctga tggcgcctca gagagcctcc atgttgagga 120  
 ctacaagtac tgatcaatct aagtgcgggt aggaatcggt attttatggg tacaaccgaa 180  
 ttttcttggt aatgagtatt gtgcttcgac tttcccaga ataataatcg tttggaattt 240

tgctttttgt ttttcctagt g 261

<210> 1914  
 <211> 253  
 <212> DNA  
 <213> Glycine max

<400> 1914

eggctcgagc ggctcgagcg gctcgagaac ctacctcttt ttcttctctc tcaacaactt 60  
 caccttcttc cacctcgata atgtctcact tcaagggcaa gtaccatgat gagcttatcg 120  
 ccaatgctgc gtacattggc actcctggaa aggggtattct tgctgctgat gagtcaacag 180  
 ggacaattgg caagcgtttg gccagcatca gtgtagagaa cattgaatcc aacaggcgag 240  
 ctcttaggga gct 253

<210> 1915  
 <211> 260  
 <212> DNA  
 <213> Glycine max

<400> 1915

aacagagcac ccttaaggca tggggcggaa aagaagagaa tgtgaagaag gctcaggaag 60  
 cccttttggg aagagccaag gctaactcag aggcaactct gggaacctac aagggttaact 120  
 cacagcttgc tgatggtgcc tcagagagcc tccatgtttc gaactacagc tactgatcaa 180  
 tcgaagttgg tgttggttga agagactagt gcgagtagga atcggtatta tgggtacaac 240  
 aaccgaattt cttgttgata 260

<210> 1916  
 <211> 257  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(257)  
 <223> unsure at all n locations

<400> 1916

aagcaacctc taacctacct ctttttcttc tctctcaaca acttcacctt cttcactctc 60

gatcatgaca cacntcaaag gcaagtagca tgatgagctt atcgccaatg ctgcgtacat 120  
 tggcactcct ggaaagggca ttcttctgctg tgatgagtca acagggacaa ttggcaagcg 180  
 tttggccagc atcagtgtag agaacattga atccacaggc gagctcttag ggagctgctt 240  
 ttcactgctc ctggtgt 257

<210> 1917  
 <211> 263  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(263)  
 <223> unsure at all n locations

<400> 1917

ggagaatgtg aagaaggctc aggaagccct tttggtaaga gccaaaggcca actcagaggc 60  
 aactctggga acctacaagg gtaactcaaa gcttctgat ggtgcctcag agagcctcca 120  
 tgttgaggac tacaagtact gatcaatcta agtgcgggta ggaatcggtta ttttatgggt 180  
 acaaccgaat tttcttggtta atgagtattg tgcttcgact cttcccagaa taataatcgt 240  
 ttggaatttn cctttggnntt ccc 263

<210> 1918  
 <211> 260  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(260)  
 <223> unsure at all n locations

<400> 1918

ctctaaceta cctctttttc ttctctctca acnaacttcan cttcttctc ctgcgatcat 60  
 gtctcacttc aagggaagc acnatgaacg agcttatcgc caatgctgag tacattggca 120  
 ctcttgaaa gggattctt gctgctgatg agtcaanagg gacaattggc aagcgtttgg 180  
 ccagcatnng tgtanngaan attgaatcca acaggcgagc tcttagggag ctgcttttca 240  
 ctgctcctgg tgttcttcaa 260

<210> 1919  
 <211> 221  
 <212> DNA  
 <213> Glycine max

<400> 1919

gatggctctc atgacattca caagtgtgct gccgtcaccg agcgtgtcct tgcagcatgc 60  
 tacaaggctt tgaatgatca ccacgtcctt cttgagggta ccctattgaa gccaaacatg 120  
 gtcacccccg gatccaattc tgctaagggt tccccctcagg tgggtgcgga gacactgtta 180  
 gagcccttca gagaaccgtg cctgctgcag ttectgctat c 221

<210> 1920  
 <211> 262  
 <212> DNA  
 <213> Glycine max

<400> 1920

ccaactcaga ggcaactctg ggaacctaca agggtaactc aaagcttgct gatgggtgcct 60  
 cagagagcct ccatgttgag gactacaagt actgatcaat ctaagtgcgg gtaggaatcg 120  
 gtattttatg ggtacaaccg aattttcttg ttaatgagta ttgtgcttcg actcttccca 180  
 gaataataat cgtttggaat tttgcttttt gttttcctag tgttccttca tatcaatttt 240  
 agtaattcgg tgtattgggc aa 262

<210> 1921  
 <211> 145  
 <212> DNA  
 <213> Glycine max

<400> 1921

cgtttggcca gcatcagtgt agagaatgtt gaatccaaca gccgtgctct tagggagctg 60  
 cttttcaccg ctcccggtgc tottaaataat ctcaagtggg tcatectctt tgaggaaact 120  
 ctctaccaga gcacagctgc aggca 145

<210> 1922  
 <211> 239  
 <212> DNA  
 <213> Glycine max

<400> 1922

gctcaggaag cccttttggt aagagccaag gccaaactcag aggcaactct gggaagctac 60

aagggtaact caaagcttgc tgatggtgcc tcagagagct ccatgttgag gactacaagt 120

actgatcaat ctaagtgcgg gtaggaatcg gtattttatg ggtacaaccg aattttcttg 180

ttaatgagta ttgtgcttcg actcttccca gaataataat cgtttggaat tttgctttt 239

<210> 1923

<211> 238

<212> DNA

<213> Glycine max

<400> 1923

tccaacctct caagtccaac ctaccccttt ttctgctccc accaacttca ccgtcttctt 60

cctcgatcat gtctcacttc aagggaagt accatgatga gcttattgcc aatgctgctt 120

acattggcac tcctggaaag ggtattcttg ctgctgatga gtcaacaggg acaattggca 180

agcgtttggc cagcatcagt gtagagaatg ttgaatccaa caggcgtgct cttaggga 238

<210> 1924

<211> 210

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)..(210)

<223> unsure at all n locations

<400> 1924

ctttcttcca acctctcaag tccaacctac cccttnttct tctcccacca acttcaccgt 60

nnttcttctt cgatcatgtc tcaacttcaag ggcaagtacc atgatgagct tattgccaat 120

gctgcttaca ttggcactcc tggaaaggga ttcttgcgtgc tgatgagtca acngggacat 180

ttggnagcgt ttgccaagcn ganatntaac 210

<210> 1925

<211> 263

<212> DNA

<213> Glycine max

<400> 1925

aacctctcaa gtccaaccta cccctttttc ttctcccacc aacttcaccg tcttcttct 60  
 cgatcatgtc tcacttcaag ggcaagtacc atgatgagct tattgccaat gctgcttaca 120  
 ttggcactcc tggaaagggg tatcttgctg ctgatgagtc aaccaggacc attggcaagc 180  
 gttttgccaa catccgtgta gaagatgttg aattccacaa ggcggctcct aaggaactgg 240  
 ttttcaacgg ttcccgtgct cct 263

<210> 1926  
 <211> 271  
 <212> DNA  
 <213> Glycine max

<400> 1926

gagaatgtga agaaggctca ggaagccctt ttggtaagag ccaaggctaa ctcagaggca 60  
 actctgggaa cctacaaggg taactcacag cttgctgatg gtgcctcaga gagcctccat 120  
 gtttcgaact acagctactg atcaatcgaa gttgggtgttg tttgaagaga ctagtgcgag 180  
 taggaatcgg tattatgggt acaacaaccg aatttcttgt tgataagtat tattgtgggt 240  
 tgactcttcc cagaataatc gtttggaatt t 271

<210> 1927  
 <211> 241  
 <212> DNA  
 <213> Glycine max

<400> 1927

acctacctct ttttcttctc tctcaacgac ttcttcttct tcttctcteta tcatgtctta 60  
 cttcaagggc aagtaccatg atgagcttat tgccaatgct gcgtacattg gcagtctctgg 120  
 aaaggggtatt cttgctgctg atgagtcagc agggacagtt ggcaatcggt tggccacaat 180  
 cagtgtagac gacattgtat ccaacaggcg agctcttatg gagctgcttt tcaactgctcc 240  
 t 241

<210> 1928  
 <211> 274  
 <212> DNA  
 <213> Glycine max

<220>



<221> unsure  
 <222> (1)..(274)  
 <223> unsure at all n locations

<400> 1928

ancnacctnt ntttcttctc tctcaacaac ttcancgggn ttcctctctcn atcangtctc 60  
 acntnaaggg gcaagtacna tgntgagctt atcgccaatg ctgcgtacat tggcactcct 120  
 ggaaagggta ttcttgctgc tgatgngtca acagggacaa ttggcaagcg tttggccagn 180  
 catcagtgtg gagaacattg aatccaacag gngnnctctt agggagcngg ctttnactgc 240  
 tcttggnnat ctcantnnnn nnntngtgc gtcc 274

<210> 1929  
 <211> 228  
 <212> DNA  
 <213> Glycine max

<400> 1929

ctcaagtcca gcctaccct ttttcttctc ccaccaactt caccgtcttc ttcctcgatc 60  
 atgtctcact tcaagggcaa gtaccatgat gagcttattg tcaatgctgc ttacattggc 120  
 actcctggaa agggatttca tgctgctgat gagtcaacag ggacaattgg caagcgtttg 180  
 tccagcatca gtgtaggcga tgttgaatcc aacaggcgtg ctcttagg 228

<210> 1930  
 <211> 112  
 <212> DNA  
 <213> Glycine max

<400> 1930

gtcccaacga gccatctgag ctggctatcc atgagaatgc ctatggcttg gccagatacg 60  
 ctgtcatatg ccaggagaat ggcttggttc ccattgttga gcctgagatc ct 112

<210> 1931  
 <211> 190  
 <212> DNA  
 <213> Glycine max

<400> 1931

gcccttttgg taagagccaa ggctaactca gaggcaactc tgggaaccta caagggtaac 60

tcacagcttg ctgatggtgc ctgagagagc ctccatgttt cgaactacag ctactgatca 120  
atcgaagttg gtgttggttg aagagactag tgcgagtagg aatcggtatt atgggtacaa 180  
caaccgaatt 190

<210> 1932  
<211> 92  
<212> DNA  
<213> Glycine max

<400> 1932

ggccaactca gaggcaactc tggggaacct acaagggtaa ctcaaagctt gctgatggtg 60  
cctcagagag cctccatgtt gaggactaca ag 92

<210> 1933  
<211> 232  
<212> DNA  
<213> Glycine max

<400> 1933

ggctaactca gaggcaactc tgggaacct caagggtaac tcacagcttg ctgatggtgc 60  
ctcagagagc ctccatgttt cgaactacag ctactgatca atcgaagttg gtgttggttg 120  
aagagactag tgcgagtagg aatcggtatt atgggtacaa caaccgaatt tcttgttgat 180  
aagtattatt gtggtttgac tcttcccaga ataatcggtt ggaattttgc tt 232

<210> 1934  
<211> 148  
<212> DNA  
<213> Glycine max

<400> 1934

ctctaacctc cctctttttc ttctctctca acaacttcac cttcttcctc ctgatcatg 60  
tctcacttca agggcaagta ccatgatgag cttatcgcca atgctgcgta cattggcact 120  
cctggaaagg ctgtctggcc acagactt 148

<210> 1935  
<211> 92  
<212> DNA  
<213> Glycine max

<400> 1935  
 cggctcgaga gaatgttgaa tccatcaggc ggcgtcttag ggagatgctt ttaaccgcta 60  
 ccggtgatct taaatatctc agtgggtgtca tc 92

<210> 1936  
 <211> 144  
 <212> DNA  
 <213> Glycine max

<400> 1936  
 ctacctcttt ttcttctctc tcaacaactt caccttcttc ctctcgcac atgtctcact 60  
 tcaagggcaa gtacatgat gagcttatcg ccaatgctgc gtacattggc actcctggaa 120  
 agggatttct tgctgctgat gagt 144

<210> 1937  
 <211> 152  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(152)  
 <223> unsure at all n locations

<400> 1937  
 accacgtcct tcttgagggt accctattga agccaaacat ggtcaccccc ggatccaatt 60  
 ctgctaaggg ttccctcag gtggttgagg agacactgnt agagccttca gagaaccgtg 120  
 ctgctgcagt tctgtatcgt ttcttgtctg gt. 152

<210> 1938  
 <211> 284  
 <212> DNA  
 <213> Glycine max

<400> 1938  
 gcgaactggt cccgctgctg ttccggccat tgtcttcttg tctggtgggc agagcgagga 60  
 ggaggcaacc ctcaacctca acgcatgaa caagtcccag ggaaagaagc cgtggtcctt 120  
 ttctttctct tttggaagg cacttcagca aagcactctc aaggcatggg gtgggaaaga 180  
 tgaaaacatt aagaaggctc aggatgcttt atttgccagg tgcaatgcaa actcacatgc 240

aacttttgga acttacaaag gtgatgctac ccttgctgag ggtg 284

<210> 1939  
 <211> 283  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(283)  
 <223> unsure at all n locations

<400> 1939

anagattcaa caatgggcct ctggcttctg ctactcttct ncaagtcac tctgttctt 60  
 gacaagtgcg agtgggtctc aggccagacc ctctcgccaac ctctcgtgag atgtaaccct 120  
 tcttcagcat cagctctcac catcaaagct gcttcctatg ctgacgagct cgtcaaaacc 180  
 gccaaaacag tggctcaccg gggcgtggta ttttggcgat ggatgagtca aatgcaactg 240  
 cgggaagcgt ttggcatcta ttgggttaga gaacacagaa gta 283

<210> 1940  
 <211> 257  
 <212> DNA  
 <213> Glycine max

<400> 1940

ggttgcttgg cggggataag attaaagatt caacaatggc ctctgcttct gctactcttc 60  
 tcaagtcac tctgttctt gacaagtgcg agtgggtcaa aggccagacc ctctcgccaac 120  
 ctctcgtgag tgtaaccctt cctcagcatc agctctcacc atcaaagctg cttcctatgc 180  
 tgacgagctc gtcaaaaccg ccaaaacagt ggctcaccg gggcgtggta ttttggcgat 240  
 ggatgagtca aatgcaa 257

<210> 1941  
 <211> 240  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(240)  
 <223> unsure at all n locations

<400> 1941

gcggggataa gattagagat tcactgtatn gnctctgctt ctgctactcg tctcaagtca 60

tctcctgttc ttgacaagtg cgggtgggtc agaggccaga cccttcgcca acctctcgtg 120

agatgtaacc cttcctcagc atcagctctc accatcaaag ctgctticcta tgctgacgac 180

gtcgtcaaaa ccgccaaaac agtggcctca ccggggcggtg gtattttggc gatggatgag 240

<210> 1942

<211> 280

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)..(280)

<223> unsure at all n locations

<400> 1942

ggggataaga ttaaagattc aacaatggcc tctgcttctg ctactcttct caagtcattct 60

cctgttcttg acaagtgcga gtnggtcaaa ggccagaccc ttcgccaacc tctcgtgaga 120

tgtaaccctt cctcagcatc agctctcacc atcaaagctg cttcctatgc tgacgagctc 180

gtcaaaaccg gccaaaacag tgggcttcac cgggggncgt gggaatttgg gngatggatg 240

nngtcaangg caaccttggg ggaagggnntt tggcntnnnt 280

<210> 1943

<211> 240

<212> DNA

<213> Glycine max

<400> 1943

cggggataag attaaagatt caacaatggc ctctgcttct gctactcttc tcaagtcattc 60

tcctgttctt gacaagtgcg agtgggtcaa aggccagacc cttcgccaac ctctcgtgag 120

atgtaaccct ccctcagcat cagctctcac catcaaagct gcttcctatg ctgacgagct 180

cgtcaaaacc gccaaaacag tggcctcacc ggggcgtggg attttggcga tggatgagtc 240

<210> 1944

<211> 174

<212> DNA

<213> Glycine max  
 <400> 1944  
 ataagattaa agattcaaca atggcctctg cttctgctac tcttctcaag tcatctcctg 60  
 ttcttgacaa gtgcgagtgg gtcaaaggcc agacccttcg ccaacctctc gtgagatgta 120  
 acccttcctc agcatcagct ctcaccatca aagctgcttc ctatgctgac gagg 174

<210> 1945  
 <211> 234  
 <212> DNA  
 <213> Glycine max  
 <400> 1945  
 aagattaaag attcaacaat ggcctctgct tctgctactc ttctcaagtc atctcctgtt 60  
 gttgacaagt gcgagtgggt caaaggccag acccttcgcc aacctctcgt gagatgtaac 120  
 ccttcctcag catcagctct caccatcaaa gctgcttcct atgctgacga gctcgtcaaa 180  
 accgccaaaa cagtggcctc accggggcgt ggtatttttg cgatggatga gtca 234

<210> 1946  
 <211> 186  
 <212> DNA  
 <213> Glycine max  
 <220>  
 <221> unsure  
 <222> (1)..(186)  
 <223> unsure at all n locations  
 <400> 1946  
 cgggggataag attaaagatt caacaatggc ctctgcttct gctactcttc tcaagtcac 60  
 tctgtttctt gacaagtgcg agtgggtcaa aggccagacc cttcgccaac ctctcgtgag 120  
 atgtaaccct tcttcagcat cagctctcac catcanagct gcttcctatg ctgacgagan 180  
 cgnaaa 186

<210> 1947  
 <211> 175  
 <212> DNA  
 <213> Glycine max  
 <400> 1947

cggggataag attaaagatt caacaatggc ctctgcttct gctactcttc tcaagtcac 60  
 tcctgttctt gacaagtgcg agtgggtcaa aggccagacc ctcgccaac ctctcgtgag 120  
 atgtaaccct tcctcagcat cagctctcac catcaaagct gcttcctatg ctgac 175

<210> 1948  
 <211> 168  
 <212> DNA  
 <213> Glycine max

<400> 1948

cggggataag attaaagatt caacaatggc ctctgcttct gctactcttc tcaagtcac 60  
 tcctgttctt gacaagtgcg agtgggtcaa aggccagacc ctcgccaac ctctcgtgag 120  
 atgtaaccct tcctcagcat cagctctcac catcaaagct gcttccta 168

<210> 1949  
 <211> 120  
 <212> DNA  
 <213> Glycine max

<400> 1949

atcggtttcc cgccatatat ccaataagct ttaaccatgt ctgcctttgt tggaaagtac 60  
 gcagatgagc ttatcaagaa tgccaagtac atagccacac ctgggaaggg catcttggca 120

<210> 1950  
 <211> 256  
 <212> DNA  
 <213> Glycine max

<400> 1950

caaagctcaa caccttgtct tccagtggc tcgcccacaa ttctttctct cctcgccgtg 60  
 gatcctcttc tcgccgagtc tctcttccga tcgcgcttc ttcttaccaa cacgaactct 120  
 tccaaaccgc caaatctatt gcatctcccg gtcgtggaat tcttgcaatt gatgaatcaa 180  
 atgccacatg tgggaagcgt ttagcatcca ttggattgga caatactgag gtgaatcgcc 240  
 aggcttatag gcaact 256

<210> 1951  
 <211> 280

<212> DNA  
 <213> Glycine max  
  
 <220>  
 <221> unsure  
 <222> (1)..(280)  
 <223> unsure at all n locations  
  
 <400> 1951  
  
 accactttct gtttctcttc actctaattg ccatggcagc gtctncaaag ctcaacacct 60  
 tgtcttcttc ccagtggatc gccacaatt ccttctctcc tcgccgtgga tctctttctc 120  
 gccgagtctc tcttccgatc cgcgcttctt cttaccaaca cgaactcgtc caaaccgcca 180  
 aatccattgc atcaccgggc cgtggaattc ttgcaattga tgaatcaa at gccacatgtg 240  
 ggaaacgatt agcatccatt ggattggaca ataccgaggt 280

<210> 1952  
 <211> 268  
 <212> DNA  
 <213> Glycine max  
  
 <400> 1952  
  
 ctttctcttt ctcttcactc taaagtctaa gcatccatgg ccatggcgtc tgcaaagctc 60  
 aacaccttgt cttcccagtg gatcgccac aattccttct ctctcgccg tggatcctct 120  
 tctcgccgag tctctcttcc gatccgcgt tcttcttacc aacacgaact cgtccaaacc 180  
 gccaaatcta ttgcatctcc cggtcgtgga attcttgcaa ttgatgaatc aaatgccaca 240  
 tgtgggaagc gtttagcatc cattggat 268

<210> 1953  
 <211> 262  
 <212> DNA  
 <213> Glycine max  
  
 <400> 1953  
  
 actttctgtt tctcttcact ctaatggcca tggcagcgtc tgcaaagctg cacaccttgt 60  
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 gagtctctct tccgatccgc gcttcttctt accaacaaga actcgtccaa accgccaat 180  
 ccattgcac acccgccggt ggaattcttg caattgatga atcaaagcc acatgtggga 240



aacgattagc atccattgga tt 262

<210> 1954  
 <211> 262  
 <212> DNA  
 <213> Glycine max

<400> 1954

ctctaagcat ccatggccat ggcgtctgca aagctcaaca ccttgtcttc ccagtggatc 60  
 gccacaatt ccttctctcc tcgccgtgga tcttcttctc gctgagttct gtcttccgat 120  
 ccgcgcttct tcttaccaac acgaactcgt ccaaaccgcc agatctattg catctcccg 180  
 tcgtggaatt cttgcaattg atgaatcaaa tgccacatgt gggaagcgtt tagcatccat 240  
 tggattggac aatactgagg tg 262

<210> 1955  
 <211> 187  
 <212> DNA  
 <213> Glycine max

<400> 1955

gcaaagctca acaccttgtc ttcttcccag tggatcgccc acaattcctt ctctcctcgc 60  
 cgtcgatcct cttctcgccg agtctctctt ccgatccgcg cttcttctta ccaacacgaa 120  
 ctcttccaaa ccgccaaatc cattgcatca cccggccgtg gaattcttgc aattgatgaa 180  
 tccaaat 187

<210> 1956  
 <211> 246  
 <212> DNA  
 <213> Glycine max

<400> 1956

tacagcccca ctttctcttt ctctttctct tcaactctaaa gtctaagcat ccatggccat 60  
 ggcgtctgca aagctcaaca ccttgtcttc ccagtggatc gccacaatt ccttctctcc 120  
 tcgccgtgga tcctcttctc gcgcagtctc tcttccgatc ccgcgcttctt cttaccaaca 180  
 cgaactcgtc caaaccgcc aatctattgc atctcccggt cgtggaattc ttgcaatgga 240  
 tgaatc 246

<210> 1957  
 <211> 289  
 <212> DNA  
 <213> Glycine max

<400> 1957

ctccccaatt ctcaagccaa ccatgtcttc cttcaagagc aagtaccaag atgaactcat 60  
 tgccaatgct gcttacattg gcaccccagg gaagggtatc cttgctgctg atgagtcaac 120  
 tgggtacaatt ggcaagcgat tggccagcat taatgtcgag aatgttgaag caaataggcg 180  
 tgctcttcgt gaactcctat tcaccacacc tgggtgctttt gagtgcctca gtggtgtgat 240  
 cttgtttgag gaaaccctat accaaaagac agcttcagga aaacccttc 289

<210> 1958  
 <211> 284  
 <212> DNA  
 <213> Glycine max

<400> 1958

cctcaagcca accatgtctt ccttcaagag caagtaccaa gatgaactca ttgccaatgc 60  
 tgcttacatt ggcaccccag ggaagggtat ccttgctgct gatgagtcaa ctggtacaat 120  
 tggcaagoga ttggccagca ttaatgtcgg aatgttgaag caaataggcg tgctcttcgt 180  
 gaactcctat tcaccacacc tgggtgctttt gagtgcctca gtggtgtgat cttgtttgag 240  
 gaaaccctat accaaaagac agcttcagga aaacccttcg taga 284

<210> 1959  
 <211> 290  
 <212> DNA  
 <213> Glycine max

<400> 1959

cttcgtcaaa accaaccaaa cccctcccca attctcaagc caaccatgtc ttccttcaag 60  
 agcaagtacc aagatgaact cattgccaat gctgcttaca ttggcacccc agggaagggt 120  
 atccttgctg ctgatgagtc aactggtaca attggcaagc gattggccag cattaatgtc 180  
 gagaatgttg aagcaaatag gcgtgctctt cgtgaactcc tattcaccac acctggtgct 240  
 tttgagtgcc tcagtgggtg gatcttggtt gaggaacccc tataccaaaa 290

<210> 1960  
 <211> 264  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(264)  
 <223> unsure at all n locations

<400> 1960

cctccccaat tctcaagcca accatgtctt ccttcaagag caagtaccaa gatgaactca 60  
 ttgccaatgc tgcttacatt ggcaccccag ggaagggat ccttgctgct gatgagtcaa 120  
 ctggtacaat tggcaagcga ttggccagca ttaatgtcga gaatgttgaa gcaaataaggc 180  
 gtgctcttcg tgaactcctn ttcaccacac ctggtgcttt tgagtgcctc agtggtgtga 240  
 tcttgtttga ggaaacccta tacc 264

<210> 1961  
 <211> 264  
 <212> DNA  
 <213> Glycine max

<400> 1961

caattctcaa gccaaccatg tcttccttca agagcaagta ccaagatgaa ctcattgcc 60  
 atgctgctta cattggcacc ccagggaagg gtatccttgc tgctgatgag tcaactggta 120  
 caattggcaa gcgattggcc agcattaatg tcgagaatgt tgaagcaaat aggcgtgctc 180  
 ttcgtgaact cctattcacc acacctggtg cttttgagtg cctcagtggt gtgatcttgt 240  
 ttgaggaaac cctataccaa aaga 264

<210> 1962  
 <211> 274  
 <212> DNA  
 <213> Glycine max

<400> 1962

gtcttctcac ttcgtcaaaa ccaaccaaac ccctcccaa ttctcaagcc aaccatgtct 60  
 tccttcaaga gcaagtacca agatgaactc attgccaatg ctgcttacat tggcacccca 120  
 gggaagggtg tccttgctgc tgatgagtca actggtacaa ttggcaagcg attggccagc 180

attaatgtcg agaatgttga agcaaataagg cgtgctcttc gtgaactcct attcaccaca 240  
cctgggtgctt tagagtgcct cagtgggtgtg atct 274

<210> 1963  
<211> 240  
<212> DNA  
<213> Glycine max

<400> 1963

cctccccaat tctcaagcca accatgtctt ccttcaagag caagtaccaa gatgaactca 60  
ttgccaatgc tgcttacatt ggcaccccag ggaagggat ccttgctgct gatgagtcaa 120  
ctgggtacaat tggcaagcga ttggccagca ttaatgtcga gaatgttgaa gcaaataaggc 180  
gtgctcttcg tgaactccta ttcaccacac ctgggtgcttt tgagtgcctc agtgggtgtga 240

<210> 1964  
<211> 280  
<212> DNA  
<213> Glycine max

<400> 1964

cgttgtctt ctcacttcgt caaaaccaac caaaccctc cccaattctc aagccaacca 60  
tgtcttcctt caagagcaag taccaagatg aactcattgc caatgctgct tacattggca 120  
ccccagggaa gggatcctt gctgctgatg agtcaactgg tacaattggc aagcgattgg 180  
ccagcattaa tgcgagaat gttgaagcaa ataggcgtgc tcttcgtgaa ctcctattca 240  
ccacacctgg tgcttttgag tgccctcagtg gtgtgatctt 280

<210> 1965  
<211> 277  
<212> DNA  
<213> Glycine max

<400> 1965

cgatgtcttc tcacttcgtc aaaaccaacc aaaccctcc ccaattctca agccaaccat 60  
gtcttccttc aagagcaagt accaagatga actcattgcc aatgctgctt acattggcac 120  
cccaggggaag ggtatccttg ctgctgatga gtcaactggc acaattggca agcgattggc 180  
cagcattaat gtcgagaatg ttgaagcaaa taggcgtgct cttcgtgaac tcctattcac 240

cacacctggt gcttttgagt gcctcagtg tgtgatc

277

<210> 1966  
<211> 266  
<212> DNA  
<213> Glycine max

<400> 1966

ccgttgtctt ctcacttcgt caaaaccaac caaaccctc cccaattctc aagccaacca 60  
tgtcttcctt caagagcaag taccaagatg aactcattgc caatgctgct tacattggca 120  
ccccagggaa gggatcctt gctgctgatg agtcaactgg tacaattggc aagcgattgg 180  
ccagcattaa tgcgagaat gttgaagcaa ataggcgtgc tcttcgtgaa ctctattca 240  
ccacacctgg tgcttttgag tgcctc 266

<210> 1967  
<211> 260  
<212> DNA  
<213> Glycine max

<400> 1967

cttctcactt cgtcaaaacc aaccaaacc ctccccaatt ctcaagccaa ccatgtcttc 60  
cttcaagagc aagtaccaag atgaactcat tgccaatgct gcttacattg gcaccccagg 120  
gaagggatc cttgctgctg atgagtcaac tggtaacaatt ggcaagcgat tggccagcat 180  
taatgtcgag aatgttgaag caaataggcg tgctcttcgt gaactcctat tcaccacacc 240  
tggtgctttt gagtgctca 260

<210> 1968  
<211> 247  
<212> DNA  
<213> Glycine max

<400> 1968

cgttgtcttc tcaattcgtc aaaaccaacc aaaccctcc ccaattctca agccaaccat 60  
gtcttccttc aagagcaagt accaagatga actcattgcc aatgctgctt acattggcac 120  
cccagggaa ggtatccttg ctgctgatga gtcaactggc acaattggca agcgattggc 180  
cagcattaat gtcgagaatg ttgaagcaaa taggcgtgct cttcgtgaac tcctattcac 240

cacacct 247

<210> 1969  
 <211> 272  
 <212> DNA  
 <213> Glycine max

<400> 1969

cctcgagcga atcggtcga gcggtgtctt ctacttcgt caacgaccaa ccaaaccct 60  
 cccaattct caagccaacc atgtcgtcct tcaagagcaa gtaccaagat gaactcattg 120  
 ccaatgctgc ttacattggc accccagga agggatctt tgctgctgat gagtcaactg 180  
 gtacaattgg caagcgattg gccagcatta atgtcgagaa tgttgaagca aataggcgtg 240  
 ctcttcgtga actcctattc accacacctg gt 272

<210> 1970  
 <211> 263  
 <212> DNA  
 <213> Glycine max

<400> 1970

cgttgtcttc tcacttcgtc aaaaccaacc aaaccctcc ccaattctca agccaaccat 60  
 gtcttccttc aagagcaagt accaagatga actcattgcc aatgctgctt acattggcac 120  
 cccaggggaag ggtatccttg ctgctgatga gtcaactggc acaattggca agcgattggc 180  
 cagcattaat gtcgagaatg ttgaagcaaa taggcgtgct cttcgtgaac tcctattcac 240  
 cacacctggg gcttttgagt gcc 263

<210> 1971  
 <211> 299  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(299)  
 <223> unsure at all n locations

<400> 1971

gtcttcnnan ttcgtcaaaa ccaaccaaac ccctcccaa ttctcaagcc aaccatgtnt 60

cnccttcaag agcaagtaen aagatgaact cattgccaat gctgcttaca ttggcacccc 120  
 aggggaaggggt atccttgctg ctgatgagtc aactgggtaca attggcaagc gattggccag 180  
 cattaatgtc gagaatgttg aagcaaatag gcgtgctctt cgtgaactcc tattcaccac 240  
 acctggtgct tttgagtgcc tcatggtgtg atcttgtttg aggaaaccct ataccaaaa 299

<210> 1972  
 <211> 235  
 <212> DNA  
 <213> Glycine max

<400> 1972

ttctcacttc gtcaaaacca accaaacccc tccccaattc tcaagccaac catgtcttcc 60  
 ttcaagagca agtaccaaga tgaactcatt gccaatgctg cttacattgg caccacagg 120  
 aagggtatcc ttgctgctga tgagtcaact ggtacaattg gcaagcgatt ggccagcatt 180  
 aatgtcgaga atgttgaagc aaataggcgt gctcttcgtg aactcctatc cacca 235

<210> 1973  
 <211> 261  
 <212> DNA  
 <213> Glycine max

<400> 1973

cgttgtcttc tcacttcgtc aaaaccaacc aaacccctcc ccaattctca agccaaccat 60  
 gtcttccttc aagagcaagt accaagatga actcattgcc aatgctgctt acattggcac 120  
 cccaggggaag ggtatccttg ctgctgatga gtcaactggc acaattggca agcgattggc 180  
 cagcattaat gtcgagaatg ttgaagcaaa taggcgtgct cttegtgaac tcctattcac 240  
 cacacctggg gcttttgagt g 261

<210> 1974  
 <211> 256  
 <212> DNA  
 <213> Glycine max

<400> 1974

ctcgagccgc gttgtcttct cacttcgtca aaaccaacca aagcactccc caattctcaa 60  
 gccaaccatg tcgtccttca agagcaagta ccaagatgaa ctcatcgcca atgctgctta 120

cattggcacc ccaggggaagg gtatccttgc tgctgatgag tcagctggta caattggcaa 180  
gcgagggggcc agcattaatg tcgagaatgt tgaagcagat aggcggtgctc tgcgtgaact 240  
cctattcacc acacct 256

<210> 1975  
<211> 216  
<212> DNA  
<213> Glycine max

<400> 1975

agaaccgttg tcttctcact tcgtcaaaac caaccaaacc cctccccaat tctcaagcca 60  
accatgtctt ccttcaagag caagtaccaa gatgaactca ttgccaatgc tgcttacatt 120  
ggcaccacag ggaagggtat ccttgctgct gatgagtcaa ctgggtacaat tggaaagcga 180  
ttggccagca ttaatgtcga gaatgttgaa ccaata 216

<210> 1976  
<211> 212  
<212> DNA  
<213> Glycine max

<220>  
<221> unsure  
<222> (1)..(212)  
<223> unsure at all n locations

<400> 1976

ccgttgtntt ctcacttcgt canaaccaac caaacccctc cccaattctc aagccaacca 60  
tgtcttcctt caagagcang taccaagntg aactcattgc caatgctgct nacattggca 120  
ccccagggaa gggatcctt gctgctgatg ngtaactgg tacaattggc aagcgattgg 180  
ccagcattan tgcgagnnt gttgaagcaa at 212

<210> 1977  
<211> 147  
<212> DNA  
<213> Glycine max

<400> 1977

ccaattctca agccaaccat gtcttccttc aagagcaagt accaagatga actcattgcc 60  
aatgctgctt acattggcac cccaggggaag ggtatccttg ctgctgatga gtcaactgg 120



acaattggca agcgattggc cagcatt

147

<210> 1978  
<211> 276  
<212> DNA  
<213> Glycine max

<400> 1978

caagggttgaa catcatcaca ttcgtacaac aaccaaccaa acccctccac aattctcagc 60

caaccatgtc ttccttcaca agcaagtacc aagatgaact cattgccaat gctgcttaca 120

ttggcacccc agggaagggt ctccttgctg ctgatgaatc actggtacaa ttggcaagcg 180

cttggccagc attaatgtcg agaatgttga agcacatagg cgtgctcttc gtgaactcct 240

attcaccaca cctggtgctt ttgagtgcct cagtgg 276

<210> 1979  
<211> 272  
<212> DNA  
<213> Glycine max

<220>  
<221> unsure  
<222> (1)..(272)  
<223> unsure at all n locations

<400> 1979

gcctctgcat cagcatctct gctcaagtct tcacttggtc ttgacaagtc tgantgggtg 60

aagggacaaa nccttcgcca accttctgca tcagttgttna gatgcaaccc caccacccca 120

tcaggcctca ccatcagagc tgggttcctat gctgatgagc tcgttaagac cgcgaaaaca 180

gtggcttcac caggaggagg tattttggcc atggatgant ccaatgctac ctgtgggaag 240

cgtttggctt caattgggct agagaacact ga 272

<210> 1980  
<211> 295  
<212> DNA  
<213> Glycine max

<400> 1980

tgcagtagtg ctaagtgcta acacctgcag tgaacaatgg cctctgcac agcatctctg 60

ctcaagtctt cacttggttct tgacaagtct gagggggtga agggacaaac ccttcgccaa 120  
ccttctgcat cagttgtgag atgcaacccc accaccccat caggcctcac catcagagct 180  
ggttcctatg ctgatgagct cgtaagacc gcgaaaacag tggcttcacc agggaggggt 240  
attttgcca tggatgagtc caatgctacc tgtgggaagc gtttggttc aattg 295

<210> 1981  
<211> 286  
<212> DNA  
<213> Glycine max

<400> 1981

gcagtgaaca atggcctctg catcagcatc tctgctcaag tcttcacttg ttcttgacaa 60  
gtctgagtgg gtgaaggagc aaacccttcg ccaaccttct gcatcagttg tgagatgcaa 120  
ccccaccacc ccacagggc tcaccatcag agctgggtcc tatgctgatg agctcgtaa 180  
gaccgcgaaa acagtggctt caccagggag gggatatttg gccatggatg agtccaatgc 240  
tacctgtggg aagcggttgg cttcattggg ctagagacat gaagct 286

<210> 1982  
<211> 229  
<212> DNA  
<213> Glycine max

<400> 1982

catctctgct caagtcttca cttgttcttg acaagtctga gtgggtgaag ggacaaaccc 60  
ttcgccaacc ttctgcatca gttgtgagat gcaacccac caccatca ggcctcacca 120  
tcagagctgg ttctatgct gatgagctcg ttaagaccgc gaaaacagtg gcttcaccag 180  
ggaggggtat tttggccatg gatgagtcca atgctacctg tgggaagcg 229

<210> 1983  
<211> 263  
<212> DNA  
<213> Glycine max

<400> 1983

gacaagtctg agtgggtgaa gggacaaaca cttcgccaac cttctgctgc atcagttgtg 60  
agatgcaacc ccaccacccc atcaggcctc accatcagag ctgggtccta tgctgatgag 120

ctcgттаага ccgcgaaacc agtggcttca ccagggaggg gtattatggc catggatgag 180  
 tccaatgcta cctgtgggaa gcgtttggct tcaattgggc tagagaacac tgaagctaac 240  
 cgccagcata ccgtaccctc ctt 263

<210> 1984  
 <211> 274  
 <212> DNA  
 <213> Glycine max

<400> 1984

gcagtagtgc taagtgctaa cacctgcagt gaacaatggc ctctgcatca gcatctctgc 60  
 tcaagtcttc acttgttctt gccaaagtctg agtgggtgaa gggacaaacc cttcgccaac 120  
 cttctgcatc agttgtcaga tgcaacccca ccaccccatc aggctcacc atcagagctg 180  
 gttcctatgc tgatgagctc gttaagaccg cgaaaacagt ggcttcacca gggaggggta 240  
 ttttggccat ggatgagtcc actgctacct gtgg 274

<210> 1985  
 <211> 293  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(293)  
 <223> unsure at all n locations

<400> 1985

tacaaaggnt gctgtaggag ataagattnc agtagtgcta agtgctaaca cctgcagtga 60  
 acantggcct ctgcatcagc atctctgctc aagtcttcac ttgttcttga caagtctgag 120  
 tgggtgaagg gncaaaccct tcgccaacct tctgcatcag ttgtgagntg caaccccacc 180  
 accccatcag gcctcaccat cagagctggg tectatgctg atgagctcgt taagaccgcg 240  
 aaaacagtgg cttcaccaag gaggggtatt ttggccatgg ntgagtccaa tgc 293

<210> 1986  
 <211> 265  
 <212> DNA  
 <213> Glycine max

<400> 1986

gattgcagta gtgctaagt ctaacacctg cagtgaacaa tggcctctgc atcagcatct 60  
ctgctcaagt cttcacttgt tcttgacaag tctgagtggg tgaagggaca aacccttcgc 120  
caaccttctg catcagttgt gagatgcaac cccaccaccc catcaggcct caccatcaga 180  
gctgggttcct atgctgatga gctcgtaaag accgcgaaaa cagtggcttc accaggagg 240  
ggatattttg ccatggatga gtcca 265

<210> 1987  
<211> 282  
<212> DNA  
<213> Glycine max

<400> 1987

aaaggttgct gtaggagata agattgcagt agtgctaagt gctaacacct gcagtgaaca 60,  
atggcctctg catcagcatc tctgctcaag tcttcacttg ttcttgacaa gtctgagtgg 120  
gtgaagggac aaacccttcg ccaaccttct gcatcagttg tgagatgcaa ccccaccacc 180  
ccatcaggcc tcaccatcag agctgggttc tatgctgatg agctcgtaa gaccgcgaaa 240  
acagtggctt caccaggagg gggatattttg gccatggatg ag 282

<210> 1988  
<211> 251  
<212> DNA  
<213> Glycine max

<400> 1988

tagtgctaag tgctaacacc tgcagtgaac aatggcctct gcatcagcat ctctgctcaa 60  
gtcttcactt gttcttgaca agtctgagt ggtgaaggga caaacccttc gccaaccttc 120  
tgcacagtt gtgagatgca accccaccac cccatcaggc ctcaccatca gagctggcttc 180  
ctatgctgat gagctcgtaa agaccgcgaa aacagtggct tcaccaggga ggggtatttt 240  
ggacatggat g 251

<210> 1989  
<211> 273  
<212> DNA  
<213> Glycine max

<400> 1989

eggctcgagg gagataagat tgcagtagtg ctaagtgcta acacctgcag tgaacaatgg 60  
 cctctgcatc agcatctctg ctcaagtctt cacttgttct tgacaagtct gagtgggtga 120  
 agggacaaac ccttcgcaa ccttctgcat cagttgtgag atgcaacccc accaccccat 180  
 caggcctcac catcagagct ggttcctatg ctgatgagct cgtaagacc gcgaaaacag 240  
 tggcttcacc agggaggggt attttggcca tgg 273

<210> 1990  
 <211> 286  
 <212> DNA  
 <213> Glycine max

<400> 1990

cagattgcag tagtgctaag tgctaacacc tgcagtgaac aatggcctct gcatcagcat 60  
 ctctgctcaa gtcttcactt gttcttgaca agtctgagtg ggtgaaggga caaaccttc 120  
 gccaaccttc tgcacagtt gtgagatgca accccaccac cccatcaggc ctcaccatca 180  
 gagctgggtc ctatgctgat gagctcgta agaccgcga aacagtggct tcaccagggc 240  
 ggggtattcc tccatggat gagctcaatg ctccctgtgg gaagcg 286

<210> 1991  
 <211> 272  
 <212> DNA  
 <213> Glycine max

<400> 1991

caaaggttgc tgtaggagat aagattgcag tagtgctaag tgctaacacc tgcagtgaac 60  
 aatggcctct gcatcagcat ctctgctcaa gtcttcactt gttcttgaca agtctgagtg 120  
 ggtgaaggga caaaccttc gccaaccttc tgcacagtt gtgagatgca accccaccac 180  
 cccatcaggc ctcaccatca gagctgggtc ctatgctgat gagctcgta agaccgcga 240  
 aacagtggct tcaccaggga ggggtatttt gg 272

<210> 1992  
 <211> 280  
 <212> DNA  
 <213> Glycine max

<400> 1992

tacaaagggtt gctgtaggag ataagattgc agtagtgcta agtgctaaca cctgcagtga 60  
 acaatggcct ctgcatcagc atctctgctc aagtcttcac ttgttcttga caagtctgag 120  
 tgggtgaagg gacaaaccct tcgccaacct tctgcatcag ttgtgagatg caaccccacc 180  
 accccatcag gcctcaccat cagagctggg tccatgctg atgagctcgt taagaccgcg 240  
 aaaacagtgg cttcaccagg gaggggtatt ttggccatgg 280

<210> 1993  
 <211> 284  
 <212> DNA  
 <213> Glycine max

<400> 1993

aagggttgctg taggagataa gattgcagta gtgctaagt ctaacacctg cagtgaacaa 60  
 tggcctctgc atcagcatct ctgctcaagt cttcacttgt tcttgacaag tctgagtggg 120  
 tgaagggaca aacccttcgc caaccttctg catcagttgt gagatgcaac cccaccaccc 180  
 catcaggcct caccatcaga gctgggtcct atgctgatga gctcgtaag accgcgaaaa 240  
 cagtggttca ccaggagggg gtatatttggc catggatgag tcca 284

<210> 1994  
 <211> 274  
 <212> DNA  
 <213> Glycine max

<400> 1994

tacaaagggtt gctgtaggag ataagattgc agtagtgcta agtgctaaca cctgcagtga 60  
 acaatggcct ctgcatcagc atctctgctc aagtcttcac ttgttcttga caagtctgag 120  
 tgggtgaagg gacaaaccct tcgccaacct tctgcatcag ttgtgagatg caaccccacc 180  
 accccatcag gcctcaccat cagagctggg tccatgctg atgagctcgt taagaccgcg 240  
 aaaacagtgg cttcaccagg gaggggtatt ttgg 274

<210> 1995  
 <211> 252  
 <212> DNA  
 <213> Glycine max

<400> 1995

aggagataag attgcagtag tgctaagtgc taacacctgc agtgaacaat ggcctctgca 60  
tcagcatctc tgctcaagtc ttcacttggt cttgacaagt ctgagtgggt gaagggacaa 120  
acccttcgcc aaccttctgc atcagttgtg agatgcaacc ccaccacccc atcaggcctc 180  
accatcagag ctggttctta tgctgatgag ctggttaaga ccgcgaaaac agtgggttca 240  
ccagggagggt gt 252

<210> 1996  
<211> 269  
<212> DNA  
<213> Glycine max

<400> 1996

caaaggttgc ttaggagat aagattgcag tagtgctaag tgctaacacc tgcagtgaac 60  
aatggcctct gcatcagcat ctctgctcaa gtcttcactt gttcttgaca agtctgagtg 120  
gggtgaaggga caaaccttc gccaaccttc tgcattcagtt gtgagatgca accccaccac 180  
cccatcaggc ctcaccatca gagctgggtc ctatgctgat gagctcgta agaccgcgaa 240  
aacagtgggt tcaccaggga ggggtattt 269

<210> 1997  
<211> 256  
<212> DNA  
<213> Glycine max

<400> 1997

ctcgagccga taagattgca gtagtgctaa gtgctaacac ctgcagtga caatggcctc 60  
tgcatcagca tctctgctca agtcttcact tgttcttgac aagtctgagt ggggtgaagg 120  
acaaaccctt cgcaaccttc tgcattcagtt gtgagatgca accccaccac cccatcaggc 180  
ctcaccatca gagctgggtc ctatgctgat gagctcgta agaccgcgaa aacagtgggt 240  
tcaccaggga ggggta 256

<210> 1998  
<211> 273  
<212> DNA  
<213> Glycine max

<400> 1998

ggctcataca aaggttgctg aggagataag attgcagtag tgctaagtgc taacacctgc 60  
 agtgaacaat ggctctgca tcagcatctc tgctcaagtc ttcacttggt cttgacaagt 120  
 ctgagtgggt gaagggacaa acccttcgcc aaccttctgc atcagttgtg agatgcaacc 180  
 ccaccacccc atcaggcctc accatcagag ctggttccta tgctgatgag ctcgttaaga 240  
 ccgcgaaaac agtggcttca ccaggagggt gta 273

<210> 1999  
 <211> 262  
 <212> DNA  
 <213> Glycine max

<400> 1999

caaaggttgc tgtaggagat aagattgcag tagtgctaag tgctaacacc tgcagtgaac 60  
 aatggcctct gcatcagcat ctctgctcaa gtcttcactt gttcttgaca agtctgagtg 120  
 ggtgaaggga caaaccttc gccaaccttc tgcatcagtt gtgagatgca accccaccac 180  
 cccatcaggc ctcaccatca gagctgggtc ctatgctgat gagctcgta agaccgcgaa 240  
 aacagtggct tcaccaggga gg 262

<210> 2000  
 <211> 262  
 <212> DNA  
 <213> Glycine max

<400> 2000

acaaaggttg ctgtaggaga taagattgca gtagtgctaa gtgctaacac ctgcagtga 60  
 caatggcctc tgcacagca tctctgctca agtcttcact tgttcttgac aagtctgagt 120  
 ggggtgaaggg acaaaccctt cgccaacctt ctgcatcagt tgtgagatgc aacccacca 180  
 cccatcagg cctcaccatc agagctgggt cctatgctga tgagctcggt aagaccgcga 240  
 aaacagtggc ttcaccagg ag 262

<210> 2001  
 <211> 268  
 <212> DNA  
 <213> Glycine max

<400> 2001



catacaaagg ttgctgtagg agataagatt gcagtagtgc taagtgctaa cacctgcagt 60  
 gaacaatggc ctctgcatca gcatctctgc tcaagtcttc acttggttctt gacaagtctg 120  
 agtgggtgaa gggacaaacc cttcgccaac cttctgcatc agttgtgaga tgcaacccca 180  
 ccaccccatc aggccctacc atcagagctg gttcctatgc tgatgagctc gttaagaccg 240  
 cgaaaacagt ggcttcacca gggagggg 268

<210> 2002  
 <211> 267  
 <212> DNA  
 <213> Glycine max

<400> 2002

taaaaaggtt gctgtaggag ataagattgc agtagtgcta agtgctaaca cctgcagtga 60  
 acaatggcct ctgcatcagc atctctgctc aagtcttcac ttgttcttga caagtctgag 120  
 tgggtgaagg gacaaaccct tcgccaacct tctgcatcag ttgtgagatg caacccacc 180  
 acgccatcag gcctcaccat cagagctggg tcctatgctg atgagctcgt taagaccgcg 240  
 aaaacagtgg cttcaccagg gaggggt 267

<210> 2003  
 <211> 248  
 <212> DNA  
 <213> Glycine max

<400> 2003

gattgcagta gtgctaagtg ctaacacctg cagtgaacaa tggcctctgc atcagcatct 60  
 ctgctcaagt cttcacttgt tottgacaag tctgagtggg tgaagggaca aacccttcgc 120  
 caaccttctg catcagttgt gagatgcaac ccaccaccc catcaggcct caccatcaga 180  
 gctggttcct atgctgatga gctcgttatc accgcgaaaa cagtggcttc accagggagg 240  
 ggtatttt 248

<210> 2004  
 <211> 258  
 <212> DNA  
 <213> Glycine max

<400> 2004

tacaaagggtt gctgtaggag ataagattgc agtagtgcta agtgctaaca cctgcagtga 60  
 acaatggcct ctgcatcagc atctctgctc aagtcttcac ttgttcttga caagtctgag 120  
 tgggtgaagg gacaaaccct tcgccaacct tctgcatcag ttgtgagatg caaccccacc 180  
 accccatcag gcctcaccat cagagctggg tcctatgctg atgagctcgt taagaccgcg 240  
 aaaacagtgg cttcacca 258

<210> 2005  
 <211> 249  
 <212> DNA  
 <213> Glycine max

<400> 2005

aggttgctgt aggagataag attgcagtag tgctaagtgc taatgcctgc agtgaacaat 60  
 ggcctctgca tcagcatctc tgctcaagtc ttcacttggt cttgacaagt ctgagtgggt 120  
 gaagggacaa acccttcgcc aaccttctgc atcagttgtg agatgcaacc ccaccacccc 180  
 atcaggcctc accatcagag ctgggtccta tgctgatgag ctcgttaaga ccgcgaaaac 240  
 agtggcttc 249

<210> 2006  
 <211> 258  
 <212> DNA  
 <213> Glycine max

<400> 2006

tacaaagggtt gctgtaggag ataagattgc agtagtgcta agtgctaaca cctgcagtga 60  
 acaatggcct ctgcatcagc atctctgctc aagtcttcac ttgttcttga caagtctgag 120  
 tgggtgaagg gacaaaccct tcgccaacct tctgcatcag ttgtgagatg caaccccacc 180  
 accccatcag gcctcaccat cagagctggg tcctatgctg atgagctcgt taagaccgcg 240  
 aaaacagtgg cttcacca 258

<210> 2007  
 <211> 257  
 <212> DNA  
 <213> Glycine max

<400> 2007

caaaggttgc tgtaggagat aagattgcag tagtgctaag tgctaacacc tgcagtgaac 60  
 aatggcctct gcatcagcat ctctgctcaa gtcttcactt gttcttgaca agtctgagtg 120  
 ggtgaaggga caaacccttc gccaaccttc tgcattcagtt gtgagatgca accccaccac 180  
 cccatcaggc ctcaccatca gagctgggtc ctatgctgat gagctcgta agaccgcgaa 240  
 aacagtggct tcaccag 257

<210> 2008  
 <211> 256  
 <212> DNA  
 <213> Glycine max

<400> 2008

taaaaatggt gctgtaggag ataagattgc agtagtgcta agtgctaaca cctgcagtga 60  
 acaatggcct ctgcatcagc atctctgctc aagtcttcac ttgttcttga caagtctgag 120  
 tgggtgaagg gacaaacctc tcgccaacct tctgcatcag ttgtgagatg caaccccacc 180  
 accccatcag gcctcaccat cagagctggc tcctatgctg atgagctcgt taagaccgcg 240  
 aaaacagtgg cttcac 256

<210> 2009  
 <211> 253  
 <212> DNA  
 <213> Glycine max

<400> 2009

gggttgctgta ggagataaga ttgcagtagt gctaagtgt aacacctgca gtgaacaatg 60  
 gcctctgcat cagcatctct gctcaagtct tcacttggtc ttgacaagtc tgagtgggtg 120  
 aagggacaaa cccttcgcca accttctgca tcagttgtga gatgcaaccc caccacccca 180  
 tcaggcctca ccatcagagc tgggttcctat gctgatgagc tcgttaagac cgcgaaaaca 240  
 gtggcttcac cag 253

<210> 2010  
 <211> 273  
 <212> DNA  
 <213> Glycine max

<400> 2010

tacaaagggtt gctgtaggag ataagattgc agtagtgcta agtgctaaca cctgcagtgt 60  
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tgggtgaagg gacaaaccct tcgccaacct tctgcatcag ttgtgagatg caaccccacc 180  
accccatcag gcctcaccat cagagctggg tcttatgctg atgagctcgt taagatggcg 240  
aaaacagtgg cttcaccagg gaggggtatt ttg 273

<210> 2011  
<211> 265  
<212> DNA  
<213> Glycine max

<400> 2011

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gtgaagggac aaacccttcg ccaaccttct gcatcagttg tgagatgcaa cccaccacc 180  
ccatcaggcc tcaccatcag agctgggtcc tatgctgatg agctcgtaa gaccgcgaaa 240  
acagtggcct caccaggag gggta 265

<210> 2012  
<211> 265  
<212> DNA  
<213> Glycine max

<220>  
<221> unsure  
<222> (1)..(265)  
<223> unsure at all n locations

<400> 2012

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gggtgaaggg acaaaccctt cgccaacctt ctgcatcagt tngagatgc aaccccacca 180  
cccatcagg cctcaccatc agagctgggt cctatgctga tgagctcgtt aagaccgcga 240  
aaacagtggc ttcaccaggg agggg 265

<210> 2013

<211> 257  
 <212> DNA  
 <213> Glycine max  
  
 <400> 2013  
  
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 ggggtgaagg acaaaccctt cgccaacctt ctgcacagc tgtgagatgc aacccaccca 180  
 ccccatcagg cctcaccatc agagctgggt cctatgctga tgagctcggt aagaccgcga 240  
 aaacagtggc ttcacca 257

<210> 2014  
 <211> 265  
 <212> DNA  
 <213> Glycine max  
  
 <400> 2014  
  
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 ggtgaaggga caaaccttc gccaaccttc tgcacagctt gtgagatgca accccaccac 180  
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 aacagtggct tcaccatgga ggggt 265

<210> 2015  
 <211> 255  
 <212> DNA  
 <213> Glycine max  
  
 <400> 2015  
  
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 gtgggtgaag ggacaaacc ttcgccaacc ttctgcatca gttgtgagat gcaacccac 180  
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<210> 2016

<211> 264  
 <212> DNA  
 <213> Glycine max  
  
 <220>  
 <221> unsure  
 <222> (1)..(264)  
 <223> unsure at all n locations  
  
 <400> 2016  
  
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 ggggtgaagg acaaaccctt cgccaacctt ctgcatcagt tgtgagatgc aacccaccca 180  
 ccccatcagg cctcncatc agagctgggt cctatgctga tgagctcggt aagaccgcga 240  
 aaacagtggc ttcaccangg aggg 264  
  
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 <211> 250  
 <212> DNA  
 <213> Glycine max  
  
 <400> 2017  
  
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 ggtgaaggga caaacccttc gccaaccttc tgcacagtt gtgagatgca accccaccac 180  
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 <211> 250  
 <212> DNA  
 <213> Glycine max  
  
 <400> 2018  
  
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 ggtgaaggga caaacccttc gccaaccttc tgcacagtt gtgagatgca accccaccac 180  
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aacagtggct 250

<210> 2019  
<211> 246  
<212> DNA  
<213> Glycine max  
<400> 2019

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gggtgaaggga caaaccttc gccaaccttc tgcattcagtt gtgagatgca accccaccac 180  
cccatcaggc ctcaccatca gagctgggtc ctatgctgat gagctcgta agaccgcga 240  
aacagt 246

<210> 2020  
<211> 252  
<212> DNA  
<213> Glycine max  
<400> 2020

acaaaggttg ctgtaggaga taagattgca gtagtgctaa gtgctaacac ctgcagtga 60  
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gggtgagggg acaaaccctt cgccaacctt ctgcattcagtt tgtgagatgc aaccaccaca 180  
cccatcagg cctcaccatc agagctgggt cctatgctga tgagctcgtt aagaccgcga 240  
aaacagtggc tt 252

<210> 2021  
<211> 248  
<212> DNA  
<213> Glycine max  
<400> 2021

tacaaaggtt gctgtaggag ataagattgc agtagtgcta agtgctaaca cctgcagtga 60  
acaatggcct ctgcattcagc atctctgctc aagtcttcac ttgttcttga caagtctgag 120  
tgggtgaagg gacaaaccct tcgccaacct tctgcattcag ttgtgagatg caaccaccac 180  
acccattcag gcctcaccat cagagctggg tcctatgctg atgagctcgt taagaccgcg 240

aaaacagt 248

<210> 2022  
<211> 260  
<212> DNA  
<213> Glycine max

<400> 2022

caaaggttgc ttaggagat aagattgcag tagtgcaaag tgctaacacc tgcagtgaac 60  
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ggtgaaggga caaaccttc gccaaccttc tgcattcagtt gtgagatgca accccaccac 180  
cccatcaggc ctcaccatca gagctgggtc ctatgctgat gagctcgta agaccgcgaa 240  
aacagtggct tcaccaggga 260

<210> 2023  
<211> 254  
<212> DNA  
<213> Glycine max

<400> 2023

caaaggttgc ttaggagat aagattgcag tagtgctaag tgctaacacc tgcagtgaac 60  
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ggtgaaggga aaaccttcg ccaaccttct gcatcagttg tgagatgcaa cccaccacc 180  
ccatcaggcc tcaccatcag agctgggtcc tatgctgatg agctcgtaaa gaccgcgaaa 240  
acagtggctt cacc 254

<210> 2024  
<211> 258  
<212> DNA  
<213> Glycine max

<400> 2024

acgttgctgt aggagataag attgcagtag tgctaagtgc taacacctgc agtgaacaat 60  
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gacgggacaa acccttcgcc aaccttctgc atcagttgtg agatgcaacc gcaccacccc 180  
atcaggctc accatcagag ctgggtccta tgctgatgat ctcgtagga ccgcgacaac 240



agtggcttca ccagggag

258

<210> 2025  
<211> 267  
<212> DNA  
<213> Glycine max

<220>  
<221> unsure  
<222> (1)..(267)  
<223> unsure at all n locations

<400> 2025

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ccttctgcat cagttgtgag atgcaacccc accaccccat caggcctcac catcagagnt 180  
ggttcctatg ctgatgagct cgtaagacc gcgaaaacag tggcttcacc ncggaggggt 240  
attttggcct ggntgagtcc aatgcnc 267

<210> 2026  
<211> 270  
<212> DNA  
<213> Glycine max

<220>  
<221> unsure  
<222> (1)..(270)  
<223> unsure at all n locations

<400> 2026

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tgggtgaagg gacaaaccct tcgccaacct tctgcatcag ttgtgagatg caaccccacc 180  
accccatcag gcctcaccat cagagctggg tcctatgctg atgagctcgt taagaccgcg 240  
aaaacagtgg cttcaccang gaggggtatt 270

<210> 2027  
<211> 273  
<212> DNA  
<213> Glycine max

<400> 2027

acgcgttcgg ctcgagattg cagtagtgct aagtgctaac acctgcagtg tacaatggcc 60  
tctgcatcag catctctgct caagtcttca cttgttcttg acaagtctga gtgtgtgaag 120  
ggacaaaccc ttcgccaacc ttctgcatca gttgtgagat gcaacccac caccatca 180  
ggcctcacca tcagagctgg ttcctatgct gatgagctcg ttaagaccgc gaaaacagtg 240  
gcttcacctc ggaggggtat tttggccatg gat 273

<210> 2028

<211> 255

<212> DNA

<213> Glycine max

<400> 2028

acaaagggtg ctgtaggaga taagattgca gtagtgctaa gtgctaacac ctgcagtga 60  
caatggcctc tgcacagca tctctgctca agtcttact tgttcttgac aagtctgagt 120  
gggtgaaggg acaaaccctt cgccaacctt ctgcatcagt tgtgagatgc aacccacca 180  
cccatcagg cctcaccatc agagctgggt cctatgctga tgagctcggt aagaccgcga 240  
aaacgtggct tcacc 255

<210> 2029

<211> 265

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)..(265)

<223> unsure at all n locations

<400> 2029

cggctcgagc aaagggtgct gtaggagata agattgcagt tcatgctaag tgctaacacc 60  
tgcaagtgaac aatggcctct gcatcagaat ctctgnctca gtcttcactt gttcttgaca 120  
agtctgagtg ggtgaaggga caaacccttc gccaaccttc tgcacagtt gtgagatgca 180  
acccaccac cccatcaggc ctcaccatca gagctgggtc ctatgctgat gagctcgta 240  
agaccgcgaa aacagtggct tcacc 265

<210> 2030  
 <211> 241  
 <212> DNA  
 <213> Glycine max  
  
 <400> 2030  
  
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 tgggtgaagg gacaaaccct tcgccaacct tctgcatcag ttgtgagatg caaccccacc 180  
 accccatcag gcctcaccat cagagctggg tcctatgctg atgagctcgt taagaccgcg 240  
 a 241

<210> 2031  
 <211> 266  
 <212> DNA  
 <213> Glycine max  
  
 <400> 2031  
  
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 aatggcctct gcatcagcat ctctgctcaa gtcttcactt gttcttgaca agtctgagtg 120  
 ggtgaaggga caaaccttc gccaaccttc tgcattcagtt gtgagatgca accctacaac 180  
 cccatcaggc ctcaccatca gagctgggtc ctatgctgat gagctcggtta agaccgcgaa 240  
 aacagtggct tcaccaggga ggggtt 266

<210> 2032  
 <211> 277  
 <212> DNA  
 <213> Glycine max  
  
 <400> 2032  
  
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 tctctgctca agtcttcact tggtcttgac aagtctgagt ggggtgaaggg acaaaccctt 120  
 cgccaacctt ctgcatcagt tgtgagtgc accccaccac cccatcaggc ctcaccatca 180  
 gagctgggtc tatgctgatg agctcggtta gaccgcgaaa acagtgggtc accagggagg 240  
 ggtatttttg ccatggatga gtccatgcta cctgtgg 277

<210> 2033  
 <211> 261  
 <212> DNA  
 <213> Glycine max  
  
 <400> 2033  
  
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 tgggtgaagg gacaaaccct tcgccaacct tctgcatcag ttgtgagatg caaccccacc 180  
 accccatcag gcctcaccat cagagctggg tccatgctg agagctcggt aagaccgga 240  
 aaacagtggc ttcaccaggg a 261

<210> 2034  
 <211> 237  
 <212> DNA  
 <213> Glycine max  
  
 <400> 2034  
  
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 ggggtgaaggg acaaaccctt cgccaacctt ctgcatcagt tgtgagatgc aaccccacca 180  
 ccccatcagg cctcaccatc agagctgggt cctatgctga tgagctcggt aagaccg 237

<210> 2035  
 <211> 258  
 <212> DNA  
 <213> Glycine max  
  
 <400> 2035  
  
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 cctctgcac agcatctctg ctcaagtctt cacttgact tgacaagtct gagggggtga 120  
 agggacaaac ccttcgcaa ccttctgcat cagttgtgag atgcaacccc accattacat 180  
 caggcacacc atcagagctg gttcctatgc tgatgagctc gttaagaccg cgtaaacagt 240  
 agcttcacca tggagggg 258

<210> 2036

<211> 277  
 <212> DNA  
 <213> Glycine max  
  
 <400> 2036  
  
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 agtctgagtg ggtgaaggga caaacacttc gccaaccttc tgctgcatca gttgtgagat 180  
 gcaaccccccac caccatca ggcctcacia tcagagctgg ttcctatgct gatgagctcg 240  
 ttaagaccgc gaaaacagtg gcttcaccag ggagggg 277

<210> 2037  
 <211> 258  
 <212> DNA  
 <213> Glycine max  
  
 <400> 2037  
  
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 tgggtgaagg gacaaaccct tcgccaacct tctggcatca gttgtgagat gcaaccccccac 180  
 caccatca ggcctcacca tcagagctgg ttcctatgct gatgagctcg ttaagaccgc 240  
 gaaaacagtg gcttcacc 258

<210> 2038  
 <211> 234  
 <212> DNA  
 <213> Glycine max  
  
 <400> 2038  
  
 aaaaaggttg ctgtaggaga taagattgca gtagtgctaa gtgctaacac ctgcagtga 60  
 caatggcctc tgcatcagca tctctgctca agtcttcact tgttcttgac aagtctgagt 120  
 ggggtgaaggg aaaaaccctt cgccaacctt ctgcatcagt tgtgagatgc aacccccacca 180  
 cccatcagg cctcaccatc agagctgggt cctatgctga tgagctcggt aaga 234

<210> 2039  
 <211> 247  
 <212> DNA

<213> Glycine max  
 <400> 2039

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 ctgcagtga caatggcctc tgcatacagca tctcttctca agtcttcact tgttcttgac 120  
 aagtctgagt ggggtgaaggg acaaacactt cgccaacctt ctgctgcatac agttgtgaga 180  
 tgcaacccca ccaccccatc aggcctcaca atcagagctg gttcctatgc tgatgagctc 240  
 gttaaga 247

<210> 2040  
 <211> 260  
 <212> DNA  
 <213> Glycine max  
 <400> 2040

caactacaaa ggttgctgta ggagataaga tattgaagta gtgctaagt cctaacacct 60  
 gcagtgaaca atggcctctg catcagcatac tttctcaag tcttcataatg ttcttgacaa 120  
 gtctgagtgg gtgaaggagc aaacacttcg ccaaccttct gctgcatacag ttgtgagatg 180  
 caacccacc accccatcag gcctcaccat cagagctggg tctatgctg atgagctcgt 240  
 taagaccgagc aaaacagtgg 260

<210> 2041  
 <211> 259  
 <212> DNA  
 <213> Glycine max  
 <400> 2041

ctcatacaaa ggttgctgta ggagataaga ttgcagtagt gctaagtgt aacacctgca 60  
 gtgaacaatg gcctctgcat cagcatctct gctcaagtct tcaattgttc ttgacaagtc 120  
 tgagtgggtg aagggaacaa cccttcgcca accttctgca tcagttgtga gatgcaaccc 180  
 caccaccca tcaggcctca ccatcagagc tggttcctat gctgatgagc tcgttaagac 240  
 cgcgaaaaca gtggttca 259

<210> 2042  
 <211> 278  
 <212> DNA

<213> Glycine max  
 <220>  
 <221> unsure  
 <222> (1)..(278)  
 <223> unsure at all n locations  
 <400> 2042  
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 gcagtgaaca atggcctctg catcagcatc tcttctcaag tcttcacttg ttcttgacaa 120  
 gtctgagtgg gtgaagggaac aaacacttcg ccaaccttct gctgcatcag ttgtgagatg 180  
 caaccccacc accccatcag gcctcacaat cagagctggg tccctatgct gatgagctcg 240  
 ttaagaccgc gaaaacagtg gcttnaccag ggaggggt 278

<210> 2043  
 <211> 238  
 <212> DNA  
 <213> Glycine max  
 <400> 2043  
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 gtgaagggaac aaacacttcg ccaaccttct gctgcatcag ttgtgagatg caaccccacc 180  
 accccatcag gcctcaccat cagagctggg tccctatgctg atgagctcgt taagaccg 238

<210> 2044  
 <211> 260  
 <212> DNA  
 <213> Glycine max  
 <220>  
 <221> unsure  
 <222> (1)..(260)  
 <223> unsure at all n locations  
 <400> 2044  
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 ancaatggcc tctgcatcag catctctgct caagtcttca cttgtncctg acaagtctga 120  
 gtgggtgaag ggacaaacc ttcgccaaacc ttctgentca gtngtgagat gcaaccccac 180

caccccatca ggcctcacca tcaganctgg ttcctatgct gatgagtcgt taagaccgcg 240  
 aaaacagtgg ttcnccaggg 260

<210> 2045  
 <211> 223  
 <212> DNA  
 <213> Glycine max

<400> 2045

aaaggttgct gtaggagata agattgcagt agtgctaagt gctaacacct gcagtgaaca 60  
 atggcctctg catcagcatc tctgctcaag tcttcacttg ttcttgacaa gtctgagtgg 120  
 gtgaagggac aaacccttcg ccaaccttct gcatcagttg tgagatgcaa cccaccacc 180  
 ccatcaggcc tcaccatcag agctggttcc tatgctgatg agc 223

<210> 2046  
 <211> 243  
 <212> DNA  
 <213> Glycine max

<400> 2046

aactacaaag gttgctgtag gagataagat attgaagtag tgctaagtgc ctaacacctg 60  
 cagtgaacaa tggcctctgc atcagcatct cttctcaagt cttcacttgt tcttgacaag 120  
 tctgagtggg tgaagggaca aacacttcgc caaccttctg ctgcatcagt tgtgagatgc 180  
 aacccaccca ccccatcagg cctcaccatc agagctgggt cctatgctga tgagctcggt 240  
 aag 243

<210> 2047  
 <211> 245  
 <212> DNA  
 <213> Glycine max

<400> 2047

caactacaaa ggttgctgta ggagataaga tattgaagta gtgctaagtg cctaacacct 60  
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 gtctgagtgg gtgaagggac aaacacttcg ccaaccttct gctgcatcag ttgtgagatg 180  
 caacccacc accccatcag gcctcacaat cagagctgggt tcctatgctg atgagctcgt 240



taaga 245

<210> 2048  
<211> 273  
<212> DNA  
<213> Glycine max

<400> 2048

gcaactacaa aggttgctgt aggagataag atattgaagt agtgctaagt gcctaacacc 60  
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agtctgagtg ggtgaaggga caaacacttc gccaaccttc tgctgcatca gttgtgagat 180  
gcaacccccac caccatca ggcctcaca tcagagctgg ttcctatggc tgatgagctc 240  
gttaagaccg cgaaaacagt ggcttcacca ggg 273

<210> 2049  
<211> 245  
<212> DNA  
<213> Glycine max

<400> 2049

tacaactaca aaggttgctg taggagataa gatattgaag tagtgctaag tgcctaacac 60  
ctgcagtga caatggcctc tgcacagca tctcttctca agtcttcact tgttcttgac 120  
aagtctgagt ggggtgaagg acaaacactt cgccaacctt ctgctgcatc agttgtgaga 180  
tgcaacccca ccacccatc aggcctcaca atcagagctg gttcctatgc tgatgagctc 240  
gttaa 245

<210> 2050  
<211> 263  
<212> DNA  
<213> Glycine max

<220>  
<221> unsure  
<222> (1)..(263)  
<223> unsure at all n locations

<400> 2050

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ctgcagtga caatggcctc tgcacagca tctcttctca agtcttcact tgttcttgac 120

aagtctgagt ggggtgaagg acaaacactt cgccaacctt ctgctgcac agttgtgaga 180  
 tgcaacccca ccaccccatc aggcctcaca atcagagctg ntccctatgc tgatncagct 240  
 cgttaagacc gcgaaaacag tgg 263

<210> 2051  
 <211> 245  
 <212> DNA  
 <213> Glycine max

<400> 2051

gcatacaact acaaagggtg ctgtaggaga taagatattg aagtagtgct aagtgcctaa 60  
 cacctgcact gaacaatggc ctctgcatca gcatctcttc tcaagtcttc acttgttctt 120  
 gacaagtctg agtgggtgaa gggacaaaca cttcgccaac cttctgctgc atcagttgtg 180  
 agatgcaacc ccaccacccc atcaggcctc accatcagag ctggttccta tgctgatgag 240  
 ctcgt / 245

<210> 2052  
 <211> 220  
 <212> DNA  
 <213> Glycine max

<400> 2052

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 acaatggcct ctgcatcagc atctctgctc aagtcttcac ttgttcttga caagtctgag 120  
 tgggtgaagg gacaaaccct tcgccaacct tctgcatcag ttgtgagatg caaccccacc 180  
 accccatcag gcctcaccat cagagctggt tcctatgctg 220

<210> 2053  
 <211> 221  
 <212> DNA  
 <213> Glycine max

<400> 2053

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 gaacaatggc ctctgcatca gcatctctgc tcaagtcttc acttgttctt gacaagtctg 120  
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ccaccccatc aggcctcacc atcagagctg gttcctatgc t 221

<210> 2054  
 <211> 256  
 <212> DNA  
 <213> Glycine max

<400> 2054

caactacaaa ggttgctgta ggagataaga tattgaagta gtgctaagtg cctaacacct 60  
 gcagtgaaca atggcctctg catcagcatc tcttctcaag tcttcacttg ttcttgacaa 120  
 gtctagtggg tgaagggaca aacacttcgc caaccttctg ctgcatcagt tgtgagatgc 180  
 aacccccacca ccccatcagg cctcaccatc agagctgggtt cctatgctga tgagctcggt 240  
 aagaccgcga aaacag 256

<210> 2055  
 <211> 288  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(288)  
 <223> unsure at all n locations

<400> 2055

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 aagtctgagt ggggtgaagg acaaactt cgccaanctt ctgctgcac agttgtgaga 180  
 tgcaaccca ccacccatc agggccttca ccatcagagc tggttcccta tgctgatgag 240  
 cncgttaag accgcgaaaa cagtggcttc accagggagg ggtatttc 288

<210> 2056  
 <211> 236  
 <212> DNA  
 <213> Glycine max

<400> 2056

tacaactaca aaggttgctg taggagataa gatattgaag tagtgctaag tgcctaacac 60

ctgcagtgaa caatggcctc tgcacagca tctcttctca agtcttcact tgttcttgac 120  
aagtctgagt ggggtgaaggg acaaactt cgccaacctt ctgctgcac agttgtgaga 180  
tgcaacccca ccaccccatc aggcctcacc atcagagctg gttcctatgc tgatga 236

<210> 2057  
<211> 240  
<212> DNA  
<213> Glycine max

<400> 2057

caactacaaa ggttgctgta ggagataaga tattgaagta gtgctaagt cctaacacct 60  
gcagtgaaca atggcctctg catcagcatc tcttctcaag tcttcacttg ttcttgacaa 120  
gtctgagtgg gtgaaggga attcacttcg ccaaccttct gctgcacag ttgtgagatg 180  
caacccacc accccatcag gcctcacaat cagagctggg tctatgctg atgagctcgt 240

<210> 2058  
<211> 254  
<212> DNA  
<213> Glycine max

<220>  
<221> unsure  
<222> (1) .. (254)  
<223> unsure at all n locations

<400> 2058

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agtctgagtg ggtgaaggga caaacacttc gccaaccttc tgnccatca gttgtgagat 180  
gcaancccaa caaccattc aggcctcaaa atcngagntg gntcctatgc ngatgagntc 240  
ggcaagaccg cgaa 254

<210> 2059  
<211> 260  
<212> DNA  
<213> Glycine max

<400> 2059

acaactacaa aggttgctgt aggagataag atattgaagt agtgctaagt gcctaacacc 60

tgcagtgaac aatggcctct gcatcagcat ctcttctcaa gtcttcactt gttcttgaca 120  
 agtctgagtg ggtgaaggga caaacacttc gccaaccttc tgctgcatca gttgtgagat 180  
 gcaacccccac caccatca ggcctcacca tcagagctgg ttcctatgct gatgagctcg 240  
 ttaagaccgc gaaaacagtg 260

<210> 2060  
 <211> 224  
 <212> DNA  
 <213> Glycine max  
 <400> 2060

tacaaagggt gctgtaggag ataagattgc agtagtgcta agtgctaaca cctgcagtga 60  
 acaatggcct ctgcatcagc atctctgctc aagtcttcac ttgttcttga caagtctgag 120  
 tgggtgaagg gacaaaccct tcgccaacct tctgcatcag ttgtgagatg caacccccacc 180  
 acccatcag gcttcacat cagagctggg tgctatgctg atga 224

<210> 2061  
 <211> 239  
 <212> DNA  
 <213> Glycine max  
 <400> 2061

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 tgaacaatgg cctctgcac agcatctctt ctcaagtctt cacttgttct tgacaagtct 120  
 gagtgggtga agggacaaac acttcgcaa ccttctgctg catcagttgt gagatgcaac 180  
 cccaccacc catcaggcct caccatcaga gctgggttct atgctgatga gctcgtaa 239

<210> 2062  
 <211> 220  
 <212> DNA  
 <213> Glycine max  
 <400> 2062

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 aatggcctct gcatcagcat ctctgctcaa gtcttcactt gttcttgaca agtctgagtg 120  
 ggtgaaggga caaaccttc gccaaccttc tgcatcagtt gtgagatgca accccaccac 180

cccatcaggc ctcaccatca gagctgggtc ctatgctgat 220

<210> 2063  
 <211> 227  
 <212> DNA  
 <213> Glycine max

<400> 2063

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 aacaatggcc tctgcatcag catctctgct caagtcttca cttgttcttg acaagtctga 120  
 gtgggtgaag ggacaaaccc ttcgccaacc ttctgcatca gttgtgagat gcaacccac 180  
 cccccatca ggcctcacca tcagagctgg tccctatgct gatgagc 227

<210> 2064  
 <211> 252  
 <212> DNA  
 <213> Glycine max

<400> 2064

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 gtctgagtgg gtaagggaca aacacttcgc caaccttctg ctgcatcagt tgtgagatgc 180  
 aaccccacca ccccatcagg cctcaccatc agagctgggt cctatgctga tgagctcgta 240  
 gaccgcgaaa ac 252

<210> 2065  
 <211> 265  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(265)  
 <223> unsure at all n locations

<400> 2065

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ggtgaaggga caaaccttc gccaaccttc tgcattcagtt gtgagatgca acccccacca 180  
 ccccatcagg gcctcaccat cngagctggg tctatgctga tgagcncggt aaagaccgag 240  
 gaaacnntgg gtttcacnag ggggg 265

<210> 2066  
 <211> 194  
 <212> DNA  
 <213> Glycine max

<400> 2066

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 aatggcctct gcatcagcat ctctgctcaa gtcttcactt gttcttgaca agtctgagtg 120  
 ggtgaaggga caaaccttc gccaaccttc tgcattcagtt gtgagatgca accccaccac 180  
 cccatcaggc ctca 194

<210> 2067  
 <211> 191  
 <212> DNA  
 <213> Glycine max

<400> 2067

ctcatacaaa ggttgctgta ggagataaga ttgcagtagt gctaagtgtt aacaggtgca 60  
 gtgaacaatg gcctctgcat cagcatctct gctcaagtct tcacttggtt ttgacaagtc 120  
 tgagtgggtg aagggacaaa cccttcgcca accttctgca tcagttgtga gatgcaaccc 180  
 caccaccca t 191

<210> 2068  
 <211> 189  
 <212> DNA  
 <213> Glycine max

<400> 2068

catacaaagg ttgctgtagg agataagatt gcagtagtgc taagtgctaa cacctgcagt 60  
 gaacaatggc ctctgcatca gcatctctgc tcaagtcttc acttggttctt gacaagtctg 120  
 agtgggtgaa gggacaaacc ctctcgccaac cttctgcatt agttgtgaga tgcaaccca 180  
 ccaccccat 189

<210> 2069  
 <211> 236  
 <212> DNA  
 <213> Glycine max

<400> 2069

ctacaaaggt tgctgtagga gataagatat tgaagtagtg ctaagtgcct aacacctgca 60  
 gtgaacaatg gcctctgcat cagcatctct tctcaagtct tcacttgttc ttgacaagtc 120  
 tgagtgggtg agggacaaac acttcgcaa ccttctgctg catcagttgt gagatgcaac 180  
 cccaccaccc catcaggcct cacaatcaga gctggttcct atgctgatga gctcgt 236

<210> 2070  
 <211> 244  
 <212> DNA  
 <213> Glycine max

<400> 2070

caactacaaa ggttgctgta ggagataaga tattgaagta gtgctaagtg cctaacacct 60  
 gcagtgaaca atggcctctg catcagcatc tcttctcaag tcttcacttg ttcttgacaa 120  
 gtctgagtgg gtgaagggca aacacttcgc caaccttctg ctgcatcagt tgtgagatgc 180  
 aacccccacca ccccatcagg cctcaccatc agagctgggt cctatgctga tgagctcggt 240  
 aaga 244

<210> 2071  
 <211> 130  
 <212> DNA  
 <213> Glycine max

<400> 2071

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 cttcacttgt tcttgacaag tctgagtggg tgaagggaca aaccttcgc caaccttctg 120  
 catcagttgt 130

<210> 2072  
 <211> 260  
 <212> DNA  
 <213> Glycine max



<400> 2072

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ctgcagtga caatggcctc tgcatacagca tctcttctca agtcttcact tgttcttgac 120

aagtctgagt ggggtgaagg acaaactt cgccaacctt ctgctgcata agttgtgaga 180

tgcaacccca ccaccccatc aggcctcacc atcagagctg gttcctatgc tgatgagctc 240

gttaagaccg cgaaaacagt 260

<210> 2073

<211> 269

<212> DNA

<213> Glycine max

<400> 2073

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ttgttcttga ctagtttgag tgcgtgaagg gacaaactc tcgccaacct tctgctgcata 120

cagttgtgag atgcaacccc accactcctt caggcctcac catcagagct gtttcctatg 180

ctgatgagct ctttaagacc gcgaaaacag tggcttcacc tcggaggggt attttggcca 240

tgtctgagtc cactgctccc tgttcgaag 269

<210> 2074

<211> 197

<212> DNA

<213> Glycine max

<400> 2074

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acaatggcct ctgcatacagc atctcttctc aagtcttcac ttgttcttga caagtctgag 120

tgggtgaagg gacaaactc tcgccaacct tctgctgcata cagttgtgag atgcaacccc 180

accaccccat caggcct 197

<210> 2075

<211> 165

<212> DNA

<213> Glycine max

<400> 2075

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aatggcctct gcatcagcat ctctgctcaa gtcttcactt gttcttgaca agtctgagtg 120  
ggtgaaggga caaaccttc gccaaccttc tgcacagtt gtgag 165

<210> 2076  
<211> 192  
<212> DNA  
<213> Glycine max

<400> 2076

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gtgaacaatg gcctctgcat cagcatctct tctcaagtct tcacttgttc ttgacaagtc 120  
tgagtgggtg aagggacaaa cacttcgcca accttctgct gcatcagttg tgagatgcaa 180  
ccccaccacc cc 192

<210> 2077  
<211> 189  
<212> DNA  
<213> Glycine max

<220>  
<221> unsure  
<222> (1)..(189)  
<223> unsure at all n locations

<400> 2077

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gtctgagtggtg gtgaagggaac aaacacttcg ccaaccttct gctgcatcag ttgtgagang 180  
caacccac 189

<210> 2078  
<211> 197  
<212> DNA  
<213> Glycine max

<400> 2078

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gtgaagggac aaacacttcg ccaaccttct gctgcatcag ttgtgagatg caaccccacc 180  
 accccatcag gcctcac 197

<210> 2079  
 <211> 199  
 <212> DNA  
 <213> Glycine max

<400> 2079

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 gcagtgaaca atggcctctg catcagcatc tcttctcaag tcttcacttg ttcttgacaa 120  
 gtctgagtgg gtgaagggac aaacacttcg ccaaccttct gctgcatcag ttgtgagatg 180  
 caaccccacc accccatca 199

<210> 2080  
 <211> 170  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(170)  
 <223> unsure at all n locations

<400> 2080

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 gcagtgaaca atggcctctg catcagcatc tcttctcaag tcttcacttg ttcttgacaa 120  
 gtctgagtgg gtgaagggac aaacacttcg ccaaccttct gctgcatcag 170

<210> 2081  
 <211> 273  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(273)  
 <223> unsure at all n locations

<400> 2081

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gcagtgaaca atggcctctg catcagcatc tcttctcaag tcttcacttg ttcttgacaa 120  
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aaccaccacca ccccatcagg cctcacaatc agagctgcct cctatgcnga tgagctcggt 240  
aagaccgcga aaacagtggc ttcaccaggg agg 273

<210> 2082  
<211> 272  
<212> DNA  
<213> Glycine max

<220>  
<221> unsure  
<222> (1)..(272)  
<223> unsure at all n locations

<400> 2082

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ctgcagtga caatggcctc tgcacagca tctcttctca agtcttcaact tgttcttgac 120  
aagtctgagt ggggtgaagga caaacacttc gccaaccttc tgctgcatca gttgtgagat 180  
gcaacccacc caccatca ggcctcacca tcagagctgg ttctatgct gatgagctcg 240  
ttaagaccgc gaaaacagtg gcttcaccag gg 272

<210> 2083  
<211> 268  
<212> DNA  
<213> Glycine max

<400> 2083

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gtctgagtgg gtgaagggac aaacacttcg ccaaccttct gctgcatcag ttgtgagatg 180  
caacccacc acccatcag gcctcagcat cagagctggg tcctatgctg atgagctcg 240  
taagaccgcg aaaacagtgg cttcacca 268

<210> 2084  
<211> 153  
<212> DNA

<213> Glycine max  
 <400> 2084  
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<210> 2085  
 <211> 222  
 <212> DNA  
 <213> Glycine max  
 <400> 2085  
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 catctcttct caagtcttca cttgttcttg acaagtctga gtgggtgaag ggacaaacac 180  
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<210> 2086  
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 <212> DNA  
 <213> Glycine max  
 <400> 2086  
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<210> 2087  
 <211> 227  
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 <213> Glycine max  
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gtctgagtgg gtgaagggac aaacccttcg ccaaccttct gcatcagctg tgagatgcaa 180  
 ccccaccacc ccatcaggcg tcaccatcag agctgggttcc tatgctg 227

<210> 2088  
 <211> 106  
 <212> DNA  
 <213> Glycine max

<400> 2088

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<210> 2089  
 <211> 278  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(278)  
 <223> unsure at all n locations

<400> 2089

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 ccattgttga gcctgagatc cntgttgatg gatctcatga cattcacaag tgtgctgccg 120  
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 ctcaggttgg tgcggancac aacggttaaa gcccttca 278

<210> 2090  
 <211> 338  
 <212> DNA  
 <213> Glycine max

<400> 2090

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 gcaaattaca agattaacct aaccgcaaaa ccgccttcaa ttggaatccc tgaaaagggt 180  
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<210> 2091  
 <211> 369  
 <212> DNA  
 <213> Glycine max

<400> 2091

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 agtgggtgtca tcctctttga ggaaactctc taccagagca cagctgcagg caagcccttt 240  
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 gagcttgctg gcactaatgg agaaaccacc actcagggtc tagatggcct tggtcagcgt 360  
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<210> 2092  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<400> 2092

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 caagtaccat gatgagctta tcgccaatgc tgcgtacatt ggcactcctg gaaagggat 180  
 tcttgctgct gatgagtcaa cagggaacaat tggcaagcgt ttggccagca tcagtgtaga 240  
 gaacattgaa tccaacaggc gagctcttag ggagctgctt ttcactgctc ctgggtgttct 300  
 tcaatatctc agtgggtgtca tcctctttga ggaaaccctc taccagagca cagctgcagg 360  
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 gggcacagtc ga 432

<210> 2093  
 <211> 379

<212> DNA  
<213> Glycine max

<400> 2093

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ttcaagggca agtaccatga tgagcttata gccaatgctg cgtacattgg cactcctgga 120
aagggtattc ttgctgctga tgagtcaaca gggacaattg gcaagcgttt ggccagcatc 180
agtgtagaga acattgaatc caacaggcga gctcttaggg agctgctttt cactgctcct 240
gggtgttcttc aatatctcag tgggtgtcatc ctctttgagg aaaccctcta ccagagcaca 300
gctgcaggca agccctttgt gaatgtcttg aaagaagctg gtgtgcttcc tggcatcaag 360
ggtgacaagg gcacagtcg 379
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<210> 2094  
<211> 411  
<212> DNA  
<213> Glycine max

<400> 2094

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acctacctct ttttcttctc tctcaacaac ttcaccttgg tctcctcga tcatgtctca 60
cttcaagggc aagtaccatg atgagcttat cgccaatgct gcgtacattg gcactcctgg 120
aaagggtatt cttgctgctg atgagtcaac agggacaatt ggcaagcggt tggccagcat 180
cagtgtagag aacattgaat ccaacaggcg agctcttagg gagctgcttt tactgctcc 240
tgggtgttctt caatatctca gtggtgtcat cctctttgaa gaaaccctct accagagcac 300
agctgcaggc aagccctttg tgaatgtctt gaaagaagct ggtgtgcttc ctggcatcaa 360
ggttgacaag ggcacagtcg agcttgctgg aactaatgga gaaaccacca c 411
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<210> 2095  
<211> 446  
<212> DNA  
<213> Glycine max

<400> 2095

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aaaaacccta cttggctctt ttcttcactt gttcactttc ttccaacctc taacctacct 60
ctttttcttc tctctcaaca acttcacctt cttcctcctc gatcatgtct cacttcaagg 120
gcaagtaacca tgatgagctt atcgccaatg ctgcgtacat tggcactcct ggaaagggta 180
```



ttcttgctgc tgatgagtca acagggacaa ttggcaagcg tttggccagc atcagtgtag 240  
agaacattga atccaacaag ccaactctta aggagctgct tttcactgct cctggtgttc 300  
ttcaatatct cagtgggtgc atcctctttg aggaaaccct ctaccagagc acagctgcag 360  
gcaagccctt tgtgaatgtc ttgaaggaag ctggtgtgct tcctggcatc aaggttgaca 420  
agggcacagt cgagcttgct ggaact 446

<210> 2096  
<211> 418  
<212> DNA  
<213> Glycine max

<400> 2096

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cctggaaagg gtattcttgc tgctgatgag tcaacaggga caattggcaa gcgtttggcc 180  
agcatcagtg tagagaacat tgaatccaac aggcgagctc ttagggagct gcttttcact 240  
gctcctgggtg ttcttcaata tctcagtggg gtcacccctt ttgaggaaac cctctaccag 300  
agcacagctg caggcaagcc ctttggaat gtcttgaagg aaacctgtgt gctttcttgc 360  
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<210> 2097  
<211> 417  
<212> DNA  
<213> Glycine max

<400> 2097

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tgtctgggtg ccagagtgag gaggaggcat ccgtcaacct caacgccatt aaccaggcca 120  
atgggaagaa gccatggtca ctctctttct cttttggaag ggcacttcaa cagagcaccc 180  
ttaaggcatg gggcggaata gaagagaatg tgaagaaggc tcaggaagcc cttttggtaa 240  
gagccaaggc taactcagag gcaactctgg gaacctacaa gggtaactca cagcttgctg 300  
atggtgcctc agagagcctc catgtttcga actacagcta ctgatcaatc gaagttgggtg 360  
ttgtttgaag agactagtgc gagtaggaaa tcgtattatg ggtacaacaa ccgaatt 417

<210> 2098  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<400> 2098

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acggctgcga gaagacgaca gaaggggggt cactttcttc caacctctaa cctacctctt 60
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agtaccatga tgagcttata gccaatgctg cgtacattgg cactcctgga aagggtattc 180
ttgctgctga tgagtcaaca gggacaattg gcaagcgttt ggccagcatc agtgtagaga 240
acattgaatc caacaggcga gctcttaggg agctgctttt cactgctcct ggtgttcttc 300
aatatctcag tgggtgcatc ctctttgagg aaacctctta ccagagcaca gctgcaggca 360
agccctttgt gaatgtcttg aaggaagctg gtgtgcttcc tggc 404
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<210> 2099  
 <211> 356  
 <212> DNA  
 <213> Glycine max

<400> 2099

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tcaagggcaa gtaccatgat gagcttatcg ccaatgctgc gtacattggc actcctggaa 120
agggtattct tgctgctgat gagtcaacag ggacaattgg caagcgtttg gccagcatca 180
gtgtagagaa cattgaatcc aacaggcgag ctcttaggga gctgcttttc actgctcctg 240
gtgttcttca atatctcagt ggtgtcatcc tctttgagga aacctctac cagagcacag 300
ctgcaggcaa gccctttgtg aatgtcttga aggaagctgg tgtgcttctt ggcata 356
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<210> 2100  
 <211> 369  
 <212> DNA  
 <213> Glycine max

<400> 2100

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ctcgagccga atcggtcga gaacctacct gtttttcttc tctctcaaca acttcacctt 60
cttctctctc gatcatgtct cacttcaagg gcaagtacca tgatgagctt atcgccaatg 120
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ctgcgtacat tggcactcct ggaaagggta ttcttgctgc tgatgagtca acagggacaa 180  
 ttggcaagcg tttggccagc atcagtgtag agaacattga atccaacagg cgagctctta 240  
 aggagctgct tttcactgct cctgggtgttc ttcaatatct cagtgggtgct atcctctttg 300  
 aggaaaccct ctaccagagc acagctgcag gcaagccctt tgtgaatgct ttgaaggaag 360  
 ctgggtgtgc 369

<210> 2101  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<400> 2101

acggctgcga gaagacgaca gaaggggact tgttcacttt cttccaacct ctcaagtcca 60  
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 tcaagggcaa gtaccatgat gagcttattg ccaatgctgc ttacattggc actcctggaa 180  
 aggggtattct tgctgctgat gagtcaacag ggacaattgg caagcgtttg gccagcatca 240  
 gtgtagagaa tgttgaatcc aacaggcgtg ctcttaggga gctgcttttc accgctcccg 300  
 gtgctcttaa atatctcagt ggtgtcatcc tctttgagga aactctctac cagagcacag 360  
 ctgcaggcaa gccctttgtg gaagtcttga 390

<210> 2102  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(427)  
 <223> unsure at all n locations

<400> 2102

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 tcacttcaag ggcaagtacc atgatgagct tatcgcaa at gctgcgtaca ttggcactcc 120  
 tggaaaggggt attcttgctg ctgatgagtc aacagggaca attggcaagc gtttggccag 180  
 catcagtgtg nagaacattg aatccaacat gcgagctctt agggagctgc ttttcactgc 240

tcttggtgtt cttcaatatc tcagtgggtg catcctcttt gaggaacccc tctaccagag 300  
cacagctgca tgcaagccct ttgtgaatgt cttgaangaa gctggtgtgc ttcctggcat 360  
caatgttgac aagggcacag tcgagcttgc tggaactaat ggagaaaaca ccactcatgg 420  
tctagat 427

<210> 2103  
<211> 392  
<212> DNA  
<213> Glycine max

<400> 2103

caacctctaa cctacctctt tttcttctct ctcaacaact tcaccttctt cctcctcgat 60  
catgtctcac ttcaagggca agtaccatga tgagcttata gccaatgctg cgtacattgg 120  
cactcctgga aagggatttc ttgctgctga tgagtcaaca gggacaattg gcaagcgttt 180  
ggccagcatc agtgtagaga acattgaatc caacaggcga gctcttaggg agctgctttt 240  
cactgctcct ggtgttcttc aatatctcag tgggtgcatc ctctttgagg aaacctcta 300  
ccagagcaca gctgcaagga aacccttgg tgaaggctct gaaggaagct ggtgtgcttc 360  
ctgccatcaa ggttgacaag ggcacagtcg ag 392

<210> 2104  
<211> 370  
<212> DNA  
<213> Glycine max

<400> 2104

cccacgcgtg cgcccacgcg tacgcctacc tatttttctt ctctctcaac agcttcaggt 60  
tcttctcctt cgatcatgtc tcacttcaag ggcaagtacc atgatgagct tatcgccaat 120  
gctgcgtaca ttggcactcc tggaaagggg attctcgctg ctgatgagtc aacagggaca 180  
attggcaagc gtttggccag catcagtgtg cagaacattg aatccaacag gcgagctctt 240  
agggagctgc ttttactgct tcttggtgtt cttgaatatc tcagtgggtg catcctgttt 300  
gaggaacccc tttaccagag cacagctgca ggcaagccct ttgtgaatgt cttgaaagaa 360  
gctggtgtgc 370

<210> 2105

<211> 405  
 <212> DNA  
 <213> Glycine max

<400> 2105

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atgtctcact tcaagggcaa gtaccatgat gagcttattg ccaatgctgc ttacattggc 120
actcctggaa agggatttct tgctgctgat gagtcaacag ggacaattgg caagcgtttg 180
gccagcatca gtgtagagaa tgttgaatcc aacaggcgtg ctcttaggga gctgcttttc 240
accgctcccg gtgctcttaa atatctcagt ggtgtcatcc tctttgagga aactctctac 300
caaagcacag ctgcaggcaa ccccttggtg aagtcttgaa ggaggctggt gtgcttcctg 360
gcatccaagt tgacaagggc acagtttgag cttgctggca ctaat 405
```

<210> 2106  
 <211> 276  
 <212> DNA  
 <213> Glycine max

<400> 2106

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ctcaagtcca acctaccct ttttcttctc ccacgcaact tgaccgtctt cttcctcgat 60
catgtctcac ttcaagggca agtaccatga tgagcttatt gccaatgctg cttacattgg 120
cactcctgga aagggtatct ttgctgctga tgagtcaaca gggacaattg gcaagcgttt 180
ggccagcatc agtgtagaga atgttgaatc caacaggcgt gctcttatgg agctgctttt 240
caccgtccc ggtgctctta aatatctcag tggtgt 276
```

<210> 2107  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(401)  
 <223> unsure at all n locations

<400> 2107

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aagtgtgtct gaggctgacg tcgtagctat tgcatcactc tataagagct atgacgcacg 60
ctgacctaaag cccgggattc gggttcggga tgggccccaa cgagccttct gagctgtcta 120
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tccatgagaa cgcctatggc ttggctagat acgctgtcat atgccatgag aatggcctgg 180  
 ttcccattgt tgagcctgag atccttgttg atggacctca tgacattcac aagtgtgccg 240  
 ncgtcaccga gcgtgtcctt gcagcatgct acaaggcttt gaatgatcac catgtccttc 300  
 ttgagggtac cctattgaag ccaaacatgg tcacccctgg atcccaatct gctaaggttt 360  
 tccctcatgt ggttgccgag cacactgtca gagcccttca g 401

<210> 2108  
 <211> 309  
 <212> DNA  
 <213> Glycine max  
 <400> 2108

gacccacgcg tccgcgcact cgtccgtacg gctgcgagaa gacgacagaa gggtagggct 60  
 gcgagaagag gacagaatgg tacggctgcg agaagacgac agaaggatac ggctgcgaga 120  
 agacgacaga agggtagggc tgcgagaaga cgacagaagg ggaccgagcg cgttcttgca 180  
 gcatgctaca aggctctaaa tgatcaccat gttctgcttg agggcactct gttgaagccc 240  
 aacatgggtca cccctgggtc aaagtctaag aaggtcaccc cagatgtgat tgctcaatac 300  
 actggttaca 309

<210> 2109  
 <211> 215  
 <212> DNA  
 <213> Glycine max  
 <400> 2109

catggcgcgg aaaagaagag attgtgaaga aggctcagga agcccttttg gtaagagcca 60  
 aggctaactc agaggcaact ctgggaacct acaagggtaa ctcacagctt gctgatgggtg 120  
 cctcagagag cctccatgtt tcgaactaca gctactgate aatcgaagtt ggtggtgttt 180  
 gaagagacta gtgcgagtag gaatcgggtat tatgg 215

<210> 2110  
 <211> 428  
 <212> DNA  
 <213> Glycine max  
 <400> 2110

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cagggtcttc cttcaagagc aagtaccaag atgaactcat tgccaatgct gcttacattg 120  
gcaccccagg gaagggtatc cttgctgctg atgagtcaac tgggtacaatt ggcaagcgat 180  
tggccagcat taatgtcgag aatggtgaag caaataggcg tgctcttcgt gaactcctat 240  
tcaccacacc tgggtgctttt gagggcctca gtgggtgtgat cttgtttgaa gaaaccctat 300  
acaaaagac agcttcagga aaacccttcg tagagttgat gaaggaaaga ggagttctcc 360  
ctggtatcaa ggttgacaag ggcacagtag agcttgcagg aactaatggg gagactacta 420  
cttaaagg 428

<210> 2111  
<211> 373  
<212> DNA  
<213> Glycine max

<400> 2111

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ttcgtcaaaa ccaacgaggg gcgtcccaa gtctcaagcc aaccatgtct tccttcaaga 120  
gcaagtacca ggatgaactc attgccaatg ctgcttacat tggcaccaca ggaagggta 180  
tccttgcggc tgatgagtca actggtacaa gtcgcaagcg attggccagc attaatgtcg 240  
agaatgttga agcaactagg cgtgctcttc gtgaactcgg attcagcaca cctggtgctt 300  
ttgagtgcct cagtgggtg atcttgtctg acgaaaccct atgccaggag acagcttcag 360  
gaaaaccctt cgt 373

<210> 2112  
<211> 370  
<212> DNA  
<213> Glycine max

<400> 2112

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acaatggcct ctgcatcagc atctctgctc aagtcttcac ttgttcttga caagtctgag 120  
tgggtgaagg gacaaaccct tcgccaacct tctgcatcag ttgtgagatg caaccccacc 180  
agcccatcag gcctcaccat cagagctggg tcctatgctg atgagctcgt taagaccgag 240

aaaacagtgg cttcaccagg gaggggtatt ttggccatgg atgagtccaa tgctacctgt 300  
 gggaagcggt tggcttcaat tgggctagag aacactgaag ctaaacgcca ggcataccgt 360  
 tacctcctcg 370

<210> 2113  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<400> 2113

agataagatt gcagtactgc taagtgctaa cacctgcaat gaacaatggc ctctgcatca 60  
 gcatctctgc tcaagtcgtc acttggttctt gacaagtctg agtgggtgaa gggacaaacc 120  
 cttegccaac cttctgcatc agttgtgaga tgcaacccca ccaccccatc aggccctcagc 180  
 atcagagctg gttcctatgc tgatgagctc gttaagaccg cgaaaacagt ggcttcacca 240  
 gggaggggta ttttggccat ggatgactcc aatgctacct gtgggaagcg tttggcttca 300  
 attgggctat agaacactga agctaaccgc catgcatagc gtaccctcct cgtgacagtt 360  
 ccaggccttg gtcagtacat ctctggtgcc attctctttg aggaaacact ctaacaat 418

<210> 2114  
 <211> 267  
 <212> DNA  
 <213> Glycine max

<400> 2114

ctcgagccac tcgagccgct aaaaactggg atgaccctac taccaagtat gtggagaaat 60  
 gcaagtatac caagagatgg ttcataacca aagtcocctaa gatataattgg aagcatggta 120  
 gctgatgttc accgcacatt gctttatgga ggtatTTTTtC tgtatccggc tgataaaaag 180  
 agtccaaatg gaaaacttcg tgtactctat gaagtcttcc caatgtcatt cttgatggaa 240  
 caagcaggag gacaggcttt cactggc 267

<210> 2115  
 <211> 271  
 <212> DNA  
 <213> Glycine max

<400> 2115



agaagagaag tggatatgag cttcaaacac tctaactg gatgctgaag caggagcaag 60  
ctggggtgat tgatgcagaa ctactattg tgctgtctag catttccatg gcgtgcaatc 120  
agattgcttc tttggtgcaa agagccaaca tttccaacct cactgggggtt caaggagctg 180  
tcaatgttca gggggaagac cagaaaaagc ttgatgttgt ttcaaagag gtcttctcat 240  
actgcttgag gtcaagtggg aggacaggga t 271

<210> 2116  
<211> 261  
<212> DNA  
<213> Glycine max  
<400> 2116

gaaatgccaa aaactgggat cgtcctactg ctacttacgt tgaaaaatgc aagtttcctg 60  
aagatgggtc atcaccaaag tctctaagat atattcgga gtatgggtag ctgatgttca 120  
tcgtacgttg ctttatggag gcatcttttt gtaccctgtt gacaaaaaaaa gtccaaatgg 180  
aaaacttcgt gtctgtatg aagtcttccc aatgtcattc ttgatggaac aggacaggag 240  
acagtctttc acgggcaagg a 261

<210> 2117  
<211> 257  
<212> DNA  
<213> Glycine max  
<400> 2117

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agcagcaacc actgggacaa agaagagaag tggatatgag cttcaaacac tctaactgctg 120  
gttgctgaag caggagcaag ctggggtgat tgatgcagaa ctactattg tgctgtctag 180  
catttccatg gcatgcaaac agattgcttc tttggtgcaa agagctaaca tttccaacct 240  
cactgggggtt caaggtg 257

<210> 2118  
<211> 271  
<212> DNA  
<213> Glycine max  
<220>

<221>        unsure  
 <222>        (1)..(271)  
 <223>        unsure at all n locations  
  
 <400>        2118  
  
 gaagtataac tgcttacttt ccctcaaaat gatactttaa tctaagtatt ttatctaaat    60  
 aaattctata gccctgaccg gcacatcaac caaagtctct aagatatatt ggaagcatgg    120  
 tagctgatgt tcatcgtagc ttgctttatg gaggcattct tttgtaccct gctgacaaaa    180  
 aaagtccaaa tggaaaactt cgtgtcctgt annnagtctt cccaatgtca ttcttgatgg    240  
 aacaggcagg aggacagtct ttcacgggca a    271

<210>        2119  
 <211>        291  
 <212>        DNA  
 <213>        Glycine max

<220>  
 <221>        unsure  
 <222>        (1)..(291)  
 <223>        unsure at all n locations  
  
 <400>        2119

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 aagaaatata ttgatgatct caaggnccca ngtcctagcg gnaagcctta ttctgcaagg    120  
 tacattggta gcttggtagg agacttcac aggnccactg ctatatggtg ncattnatgg    180  
 gtaccccgang gnccaagcca aagtaacnat gggcaattca agctncanta ggangggccn    240  
 ccatnanctt cnttatnngc cccggctggg ggaaaagggtc cntgcccc c    291

<210>        2120  
 <211>        258  
 <212>        DNA  
 <213>        Glycine max

<220>  
 <221>        unsure  
 <222>        (1)..(258)  
 <223>        unsure at all n locations  
  
 <400>        2120

gtgaacgtgt gccaaaccgg aagcaacctt cttgcagctg gttactgcat gtattctagc    60

tccaataatc tttgtttctca cccttgggaa tggagtgttt gtgtttacat tggacccgat 120  
gtatggcgaa ttcgttttga ctcaggaaaa cctncaaata cctagagcag gcaaaattta 180  
tnctttcaat gaagggaatn atcattgttg gancncacn taaggaaant ntntggacaa 240  
ncnangnccc ncgcncccc 258

<210> 2121  
<211> 157  
<212> DNA  
<213> Glycine max

<400> 2121

atggtagctg atgttcacg tacgttgctt tatggaggca tctttttgta ccctgctgac 60  
aaaaaaagtc caaatggaaa acttcgtgtc ctgtatgaag tcttcccaat gtcattcttg 120  
atggaacagg caggaggaca gtctttcacg ggcaagg 157

<210> 2122  
<211> 262  
<212> DNA  
<213> Glycine max

<400> 2122

tcacagtgcc gatgctcaac gcacggactt gatgaccatc acccgcttcg tgctgaacca 60  
acaatccaac caccctgagt ctcggtggcg tttctcaatc ttgctcagtc acattgttct 120  
cggttgcaag ttcctctgct ctgctgttaa caaggcgggt cttgctaagc ttattggact 180  
tgcaggagag acaaagtgtc agggcgaaga gcaaaagaaa ctggatgtcc tttccaatga 240  
tgtctttatc aaggctttgg tc 262

<210> 2123  
<211> 241  
<212> DNA  
<213> Glycine max

<400> 2123

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ccaacaatcc aaccaccctg agtctcgttg cgatttctca atcttgctca gtcacattgt 120  
tctcggttgc aagttcctct gctctgctgt taacaaggcg ggtcttgcta agcttattgg 180

acttgcagga gagacaaatg ttcaggggaa gagcaaaaga aactggatgt cctttccaat 240

g 241

<210> 2124

<211> 261

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)..(261)

<223> unsure at all n locations

<400> 2124

acatacaccc acatatttca tatgggtact tgtaatttg ggtgtggatt gttggtttgt 60

nacttgtntt gttccgttca ggtgattgtn tgattgagcc ttgaagaaat ggaccacagc 120

gctgatgcac atcgcacgga cttgatgacc ataacgcggt tcgtgctgaa cgagcaatcc 180

aagcaccocg agtcacgcgg cgatttcacc atcttgetca gtcacattgt tctcggttgc 240

aagttcgntt gttccgctgt c 261

<210> 2125

<211> 258

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)..(258)

<223> unsure at all n locations

<400> 2125

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ttcatatggg tacttgtaa tttnggtgtg gattgttagt ttgttacttg tttgttccgt 120

tcaggtgatt gtttgattga gccttgaaga aatggaccac agcgctgatg cacatcgcac 180

ggacttgatg accataacgc ggttcgtgct gaacgagcaa tccaagcacc ccgagtcacg 240

cggcgatttc accatctt 258

<210> 2126

<211> 257

<212> DNA

<213> Glycine max

<400> 2126

tccaacctca ctgggggttca aggagctgtc aatgttcagg gggaagacca gaaaaagctt 60  
gatgttggttt caaatgaggt tttctcaaac tgcttgaggt caagtgggag gacagggata 120  
atagcatcag aggaggaaga tgtgccagtg gcagtagaag agagttattc tggaaactac 180  
attgtgggtgt ttgaccact tgatgggtca tccaatattg atgctgcagt gtcaactggg 240  
tccatttttg ggatata 257

<210> 2127

<211> 253

<212> DNA

<213> Glycine max

<400> 2127

tcagggggaa gaccagaaaa agcttgatgt tgtttcaa at gaggttttct caaactgctt 60  
gaggtcaagt gggaggacag ggataatagc atcagaggag gaagatgtgc cagtggcagt 120  
agaagagagt tattctggaa actacattgt ggtgtttgac ccacttgatg ggtcatccaa 180  
tattgatgct gcagtgtcaa ctgggtccat ttttgggata tacagcccca atgatgagtg 240  
tctgctgaca ttg 253

<210> 2128

<211> 228

<212> DNA

<213> Glycine max

<400> 2128

tatcagaaaa agcttgatgt tgtttcaa at gaggttttct caaactgctt gaggtcaagt 60  
gggaggacag ggataatagc atcagaggag gaagatgtgc cagtggcagt agaagagagt 120  
tattctggaa actacattgt ggtgtttgac ccacttgatg ggtcatccca tattgatgct 180  
gcaatgtcaa tgggggtccat ttttgggata tacagcccca tgatgagt 228

<210> 2129

<211> 284

<212> DNA

<213> Glycine max

<400> 2129

atcaacaaac caaaaaggta aactttttgc aacaaccatg gttgcaatgg cagcagcaac 60

agcatccacc cagttgattt tctcaaagcc ttgttcccct tcacgtctat gcccttcca 120

actatgtgtc tttgacacta aacaagtgct atcaagtggc aggagaaggc atgtgggggg 180

ttctggagtt aggtgcatgg ctgtggggga agcagcaacc actgggacaa agaagagaag 240

tggatatgag cttcaaacac tcactagctg gttgctgaag cagg 284

<210> 2130

<211> 276

<212> DNA

<213> Glycine max

<400> 2130

caaaaaggta aactttttgc aacaaccatg gttgcaatgg cagcagcaac agcatccacc 60

cagttgattt tctcaaagcc ttgttcccct tcacgtctat gcccttcca accatgtgtc 120

tttgacacta aacaagtgct atcaagtggc aggagaaggc atgtgggggg ttctggagtt 180

aggtgcatgg ctgtggggga agcagcaacc actgggacaa agaagagaag tggatatgag 240

cttcaaacac tcactagctg gttgctgaag caggag 276

<210> 2131

<211> 283

<212> DNA

<213> Glycine max

<400> 2131

caaaaaggta aactttttgc aacaaccatg gttgcaatgg cagcagcaac agcatccacc 60

cagttgattt tctcaaagcc ttgttcccct tcacgtctat gcccttcca actatgtgtc 120

tttgacacta aacaagtgct atcaagtgga ggagaaggca tgtgggggggt tctggagtta 180

ggtgcatggc tgtgggggaa gcagcaacca ctgggacaaa gaagagaagt ggatatgagc 240

ttcaaacact cactagctgg ttgctgaagc aggagcagct ggg 283

<210> 2132

<211> 289

<212> DNA

<213> Glycine max

<400> 2132

aatcaacaaa ccaaaaaggt aaactttttg caacaaccat ggttgcaatg gcagcagcaa 60

cagcatccac ccagttgatt ttctcaaagc cttgttcccc ttcacgtcta tgcccccttc 120

aactatgtgt ctttgcacac taaacaagtg ctatcaagtg gcaggagaag gcatgtgggg 180

ggttctggag ttaggtgcat ggctgtgggg gaagcagcaa cactgggac aaagaagaga 240

agtggatatg agcttcaaac actcactagc tggttgctga agcaggagc 289

<210> 2133

<211> 274

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)..(274)

<223> unsure at all n locations

<400> 2133

actttttgca acaaccatgg ttgcaatggg cagcagcaac agcatccacc cagttgattt 60

tctcaaagcc ttgttcccc ttcacgtcta tgcccccttc aactatgtgt ctttnacact 120

aaacaagtgc tatcaagtgg caggagaagg catgtggggg gttctggagt taggtgcatg 180

gctgtggggg aagcagcaac catgggacaa agaagagaag tggatatgag cttcaaacac 240

tcactagctg gttgctgaag caggagcaag ctgg 274

<210> 2134

<211> 252

<212> DNA

<213> Glycine max

<400> 2134

aaaaggtaaa ctttttgcaa caaccatggg tgcaatggca gcagcaacag catccaccca 60

gttgattttc tcaaagcctt gttccccctt acgtctatgc cccttcgaac tatgtgtctt 120

tgacactaaa caagtgctat caagtggcag gagaaggcat gtgggggggt ctggagttag 180

gtgcatggct gtgggggaag cagcaaccac tgggacaaag aagagaagtg gatatgagct 240

tcaaacactc ac 252

<210> 2135  
 <211> 275  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(275)  
 <223> unsure at all n locations

<400> 2135

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ttttgcaaca accatggttg caatgggcag cagcaacagc atccaccag ttgattttct 60
caaagccttg ttcccttca cgtctatgcc ccttccaact atgtgtcttt gacactaaac 120
aagtgctatc aagtggcagg anaaggcatg tgggggggttc tggagttagg tgcattggctg 180
tgggggaagc agcaaccact gggacaaaga ananaagtgg atatgagctt caaacactca 240
ctagtgggtg ctgaanagga gcaagctggg gtgnt 275

```

<210> 2136  
 <211> 253  
 <212> DNA  
 <213> Glycine max

<400> 2136

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caaaaaggta aactttttgc aacaaccatg gttgcaatgg cagcagcaac agcatccacc 60
cagttgattt tctcaaagac cttgttcccc ttacgtctta tgccccttcc aactatgtgt 120
ctttgacact aaacaagtgc tatcaagtgg caggagaagg catgtggggg gttctggagt 180
taggtgcatg gctgtggggg aagcagcaac cactgggaca aagaagagaa gtggatatga 240
gcttcaaaca ctc 253

```

<210> 2137  
 <211> 254  
 <212> DNA  
 <213> Glycine max

<400> 2137

```

aaaaggtaaa ctttttgcaa caaccatggt tgcaatggca gcagcaacag catccacca 60
gttgattttc tcaaagcctt gttccccttc acgtctatgc cccttccatc tatgtgtctt 120
tgacactaaa caagtgctat caagtggcag gagaaggcat gtgggggggt ctggagttag 180

```



gtgcatggct gtgggggaag cagcaaccac tgggacaaaa agagaagtgg atatgagctt 240  
 caaacactca ctac 254

<210> 2138  
 <211> 262  
 <212> DNA  
 <213> Glycine max

<400> 2138

ttctcaaagc cttgttcccc ttcacgtcta tgccccttcc aactatgtgt ctttgacact 60  
 aaacaagtgc tatcaagtgg caggagaagg catgtggggg gttctggagt taggtgcatg 120  
 gctgtggggg aagcagcaac cactgggaca aagaagagaa gtggatatga acttcaaaca 180  
 ctactagct gggtgctaga acaggagcaa gctgggggtga ttgatgcaga actcatattg 240  
 tgctgtctag catttccatg gc 262

<210> 2139  
 <211> 285  
 <212> DNA  
 <213> Glycine max

<400> 2139

caaaaaggta aacttttgca acaaccatgg ttgcaatggc agcagcaaca gcatcctccc 60  
 agttgatttt ctcaaagcct cgctcaccct cgcgtctctg tcccttccaa ctaacgggtct 120  
 ttgacaccaa acaagtgtctg tcaagttcaa gtggcaggag aaggcatgtg ggggggttctg 180  
 gagttaggtg catggcggtg ggagaagctg caaccactga gactaagaag agaagtggat 240  
 atgagcttca aacactcact aactggttgc tgaagcagga gcaag 285

<210> 2140  
 <211> 251  
 <212> DNA  
 <213> Glycine max

<400> 2140

atggttgcaa tggcagcagc aacagcatcc acccagttga ttttctcaaa gccttggtcc 60  
 ccttcacgtc tatgcccctt ccaactatgt gtctttgaca ctaaacaagt gctatcaagt 120  
 ggcaggagaa ggcattgtggg ggggttctgga gttaggtgca tggctgtggg ggaagcagca 180

accactggga caaagaagag aagtggatat gagcgtgatc actcactagc tggttgctga 240  
agcaggagca a 251

<210> 2141  
<211> 275  
<212> DNA  
<213> Glycine max

<400> 2141

caaaaaggta aacttctgca acaaccatgg ttgcaatggc agcagcaaca gcatcctccc 60  
agttgatttt ctcaaagcct cgttcaccct cgcgtctctg ccccttccac actatgtgtc 120  
tttgacacca aacaagtgtc gtcaagttca agtggcagga gaaggcatgt ggggggttct 180  
ggagttaggt gcatggcggt gggagaagct gcaaccactg agactaagaa gagaagtgga 240  
tatgagcttc aacactcact aactggttgc tgaag 275

<210> 2142  
<211> 248  
<212> DNA  
<213> Glycine max

<400> 2142

caacaaacca aaaaggtaaa ctttttgcaa caaccatggt tgcaatggca gcagcaacag 60  
catccaccca gttgattttc tcaaagcctt gttccccttc acgtctatgc cccttccaac 120  
tatgtgtctt tgacactaaa caagtgtat caagtggcag gagaaggcat gtgggggggtt 180  
ctggaataga gtgcatggct gtgggggaag cagcaaccac tgggacaaag aagagaagtg 240  
gatatgag 248

<210> 2143  
<211> 348  
<212> DNA  
<213> Glycine max

<220>  
<221> unsure  
<222> (1)..(348)  
<223> unsure at all n locations

<400> 2143

aaatcttttt gctcttagtg ccttagtaca caatccatgt aaccaccact agtgctaaaa 60

tcatcaacca aaaaggtaaa cttctgcaac aaccatgggt gcaatggcag cagcaacagc 120  
 atcctcccag ttgattttct caaagcctcg ttcaccctcg cgtctctgcn ccttccaact 180  
 atgtgtcttt gacaccaaac aagtgtgtgc aagttcaagt ggcaggagaa ggcatgtggg 240  
 gggttctgga gttaggtgca tggcggtggg agaagctgca accactgaga ctaagaagag 300  
 aagtggatat gagcttcaaa cactcactaa ctggttctga agcaggac 348

<210> 2144  
 <211> 283  
 <212> DNA  
 <213> Glycine max  
 <400> 2144

caaaaaggta aacttctgca acaaccatgg ttgccaatgg cagcagcaac agcatcctcc 60  
 cagttgattt tctcaaagcc tcgttcaccc tcgcgtctct gcccttcca actatgtgtc 120  
 tttgacacca aacaagtgtc gtcaagttca agtggcagga gaaggcatgt ggggggttct 180  
 ggagttaggt gcatggcggt gggagaagct gcaaccactg agactaagaa gagaagtgga 240  
 tatgagcttc aaacactcac taactggttg ctgaagcagg agc 283

<210> 2145  
 <211> 246  
 <212> DNA  
 <213> Glycine max  
 <400> 2145

aaacttctgc aacaaccatg gttgcaatgg cagcagcaac agcatcctcc cagttgattt 60  
 tctcaaagcc tcgttcaccc tcgcgtctct gacccttcca actatgtgtc tttgacacca 120  
 aacaagtgtc gtcaagttca agtggcagga gaaggcatgt ggggggttct ggagttaggt 180  
 gcatggcggt gggagaagct gcaaccactg agactaagag agaagtggat atgagcttca 240  
 aacact 246

<210> 2146  
 <211> 257  
 <212> DNA  
 <213> Glycine max  
 <400> 2146

caaaaaggta aacttctgca acaaccatgg ttgcaatggc agcagcaaca gcatcctccc 60  
agttgatttt ctcaaagcct cgttcaccct cgcgtctctg ccccttccaa ctatgtgtct 120  
ttgacaccaa acaagtgtctg tcaagttcaa gtggcaggag aaggcatgtg gggggttctg 180  
gagttagggtg catggcggtg ggagaagctg caaccactga gactaagaag agaagtggat 240  
atgagcttca aacactc 257

<210> 2147  
<211> 278  
<212> DNA  
<213> Glycine max

<220>  
<221> unsure  
<222> (1)..(278)  
<223> unsure at all n locations

<400> 2147

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agttgatttt ctcaaagcct cgttcaccct cgcgtctctg cnccttccaa ctatntgtct 120  
ttgacaccaa acaagtgtctg tcagttcaag tggcaggaga aggctgtgg ggggntctgg 180  
agttnggtgc atggcggtgg gagaagctgc aaccatgaga ctangnagag aagtggatat 240  
gagcttcaaa catcataact gggtgctgaa gcaggagc 278

<210> 2148  
<211> 246  
<212> DNA  
<213> Glycine max

<400> 2148

aaacttctgc aacaactatg gttgcaatgg cagcagcaag agcatcctcc cagttgattt 60  
tctcaaagcc tcgttcaccc tocggtctct gcccttcca actatgtgtc tttgacacca 120  
aacaagtgtc gtcaagttca agtggcagga gaaggcatgt ggggggttct ggagttagggt 180  
gcatggcggt gggagaagct gcaagcactg agactaagaa gaaagtggat atgagcttca 240  
aacact 246

<210> 2149

<211> 250  
 <212> DNA  
 <213> Glycine max  
  
 <400> 2149  
  
 aaacttctgc aacaaccatg gttgcaatgg cagcagcaac agcatcctcc cagttgattt 60  
 tctcaaagcc tcgttcaccc tcgctctctt gcccttcca gctatgtgtc tttgacacca 120  
 aacaagtgtc gtcaagttca agtggcagga gaaggcatgt ggggggttct ggagttaggt 180  
 gcatggcggt gggagaagct gcaacacctg agactaagaa gagaagtgga tatgagcttc 240  
 aaacactcac 250

<210> 2150  
 <211> 269  
 <212> DNA  
 <213> Glycine max  
  
 <220>  
 <221> unsure  
 <222> (1)..(269)  
 <223> unsure at all n locations  
  
 <400> 2150  
  
 caaaaaggta aacttcngca acaaccatgg ttncaatgg cagcagcaac agnatcctcc 60  
 cagtngattt tctcaaagcc tcgttgcanc ctgcgtctc tgccccttcc aactatgngt 120  
 ctttgnccac aaacaagtgc tgtcaagttc aagtggcagg agaaggcatg tgggggggttc 180  
 tggagttagg tgcattggcg tgggagaagc tgcaaccact gagactaaga agagaagtgg 240  
 atatgagctt caaacactca ntaactggt 269

<210> 2151  
 <211> 222  
 <212> DNA  
 <213> Glycine max  
  
 <400> 2151  
  
 aaaatcaaca aacccaaaag gtaaactttt tgcaacaacc atggttgcaa tggcagcagc 60  
 aacagcatcc acccagttga ttttctcaaa gccttgttcc ccttcacgtc tatgcccctt 120  
 ccaactatgt gtctttgaca ctaaacaagc gctatcaagt ggcaggagaa ggcattgtggg 180  
 gggttctgga gttaggtgca tggctgtggg ggaagcagca ac 222

<210> 2152  
 <211> 192  
 <212> DNA  
 <213> Glycine max  
  
 <400> 2152  
  
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 ttttctcaaa gccttggtcc ccttcacgtc tatgccccat ccaactatgt gtctttgaca 120  
 ctaaacaagt gctatcaagt ggcaggagaa ggcattgtggg gggttctgga gttagggtgca 180  
 tggctgtggg gg 192

<210> 2153  
 <211> 247  
 <212> DNA  
 <213> Glycine max  
  
 <400> 2153  
  
 caaccaaaaa ggtaaacttc tgcaacaacc atggttgcaa tggcagcagc aacagcatcc 60  
 tcccagttga ttttctcaaa gcctcggttc ccctcgcggtc tctgccccctt ccaactatgt 120  
 atcttgacac caaacaagtg ctgtcaagtt caagtggcag gagaaggcat gtgggggggtt 180  
 ctggagttag gtgcatggcg gtggggagaag ctgcaaccac tgagactaag aagagaagtg 240  
 gatatga 247

<210> 2154  
 <211> 255  
 <212> DNA  
 <213> Glycine max  
  
 <220>  
 <221> unsure  
 <222> (1)..(255)  
 <223> unsure at all n locations  
  
 <400> 2154  
  
 acacaatcca tgtaancacc actagcacca taccacactg ccaaaatcan caaaccaaaa 60  
 aggtaaactt tttgcaacaa ccatgggttc aatggcagca gcaacagcat ccacccagtt 120  
 gattttctca aagccttggt ccccttcacg tctatgcccc ttccaactat gngnctgnac 180

taaacaagtg ntatcaagtg gcaggagaag gnatgtgggg gggtctggag tnaggtgcat 240  
ggctgtgggg gaagc 255

<210> 2155  
<211> 225  
<212> DNA  
<213> Glycine max  
<400> 2155

tacggctgcg agaagacgac agaaggggac cactagtgtct aaaatcatca accaaaaagg 60  
taaacttctg caacaaccat gggtgcaatg gcagcagcaa cagcatcctc ccagttgatt 120  
ttctcaaagc ctggttcacc ctgcgtctc tggcccttcc aactatgtgt ctttgacacc 180  
aaacaagtgc tgtcaagttc aagtggcagg agaaggcatg tgggg 225

<210> 2156  
<211> 218  
<212> DNA  
<213> Glycine max  
<400> 2156

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gccaaaatca acaaaccaaa aaggtaaact ttttgcaaca accatgggtg caatggcagc 120  
agcaacagca tccaccagc tgattttctc aaagccttgt tccccttcac gtctatgccc 180  
cttccaacta tgtgtctttg aactaaaca agtgctat 218

<210> 2157  
<211> 135  
<212> DNA  
<213> Glycine max  
<400> 2157

caaaaaggta aactttttgc aacaaccatg gttgcaatgg cagcagcaac agcatccacc 60  
cagttgattt totcaaagcc ttgttcccc tcaagtctat gcccttcca actatgtgtc 120  
tttgacacta aacaa 135

<210> 2158  
<211> 92  
<212> DNA

<213> Glycine max  
 <400> 2158  
 gtaaacttct gcaacaacca tggttgcat ggcagcagca acagcatcct ccagttgat 60  
 tttctcaaag cctcgttcac cctcggtct ct 92

<210> 2159  
 <211> 236  
 <212> DNA  
 <213> Glycine max  
 <400> 2159  
 tgagccttct aagcgcggaa agtactgtgt ttgctttgac ccattggatg gtcgtccaa 60  
 cattgattgt ggggtttcca ttggcacaat ttttggggtt tatgcgttga aagatgtcca 120  
 tgaaccaacc atagaagatg tcctgcttcc tgggaagaac atggtggcag ctggttactg 180  
 tatgtatgga agctcttgca cgcttgtgtt aagcactgga gcaggtgtta atggtt 236

<210> 2160  
 <211> 280  
 <212> DNA  
 <213> Glycine max  
 <400> 2160  
 gcaacagcca ctaagatggt ctttgagtct tggcagcca cgtgtcagaa ctgccaacag 60  
 atagcaccat ctctttctcc ttctccctaa acctcgaact cagcaccccc atccactggt 120  
 gattgtttga ttgagccttg aagaaatgga ccacagcgct gatgcacatc gcacggactt 180  
 gatgaccata acgcggttcg tgctgaacga gcaatccaag caccctgagt cacgcggcga 240  
 tttcaccatc ttgctcagtc acattgttct cggttgcaag 280

<210> 2161  
 <211> 363  
 <212> DNA  
 <213> Glycine max  
 <220>  
 <221> unsure  
 <222> (1)..(363)  
 <223> unsure at all n locations  
 <400> 2161



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caaaactttc atatccccga aattctctct tttccactg ttccctagga aatatttatt 60
ctcatcttca tcctctacac aacacctaag atcggacaag agggaactca taatttataa 120
aaagaacatt gagaaagaga gaagggaaga agaatggacc accaagctga cactaacaga 180
actgatttga tgacatcaca cgctttgttc tgaatgaaca gtcaaagtat cccgantcac 240
gtggcgattt caccatcctt ctcatgcaca tggttctggg ctgnaatccg tttgttctgc 300
tgtnaanagg ngggttggcg aaaccaag attgcggaga nncattttca ggggggacaa 360
aaa 363

```

```

<210> 2162
<211> 393
<212> DNA
<213> Glycine max

```

```

<400> 2162

```

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ccccactcca tcatttatta tactttcttc ttcttcttta ttattgttga ttaatataac 60
atacaccacac atatttcata tgggtacttg ttaatttggg tgtggattgt tggtttgta 120
cttgttttgt tccgttcagg tgattgtttg attgagcctt gaagaaatgg accacagcgc 180
tgatgcacat cgcacggact tgatgaccat aacgcgggtc gtgctgaacg agcaatccaa 240
gcaccccgag tcacgcggcg atttcacat cttgctcagt cacattgttc tcggttgcaa 300
gttcgtttgt tccgctgtta acaaaggctg gccttgctaa acttattgga ctgctggag 360
aaaccaatgt tcaagtgaa gaacagaata aac 393

```

```

<210> 2163
<211> 123
<212> DNA
<213> Glycine max

```

```

<400> 2163

```

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cttcaatgtt ggtaagtatc gtcgccttaa gcatggttct agtcagtctg ctgatttctt 60
tcgagctgac aatcctgaag gtgtggaggc acgtaatgag gtagcaaaga tggcatttga 120
aga 123

```

```

<210> 2164
<211> 243

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<212> DNA  
 <213> Glycine max  
 <400> 2164  
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 gcatttgaag atatgatatc ttggatgcaa gaaggtggcc aggttgggat atttgatgcc 120  
 acaaacagta gcaagcagcg aagaaacatg ctgatgaaat tggctgaagg tagatgcaag 180  
 atcatttttc tggaaacaat atgcaatgat gtagacataa ttgagaggaa tattcgcttt 240  
 aaa 243

<210> 2165  
 <211> 260  
 <212> DNA  
 <213> Glycine max  
 <400> 2165  
 cttgagcatt atgttgtccc aactcccgca actgctgcaa attcagcaca tgtatatgcc 60  
 gctaacatga cagagaatcc aaggtcacta atttgtgggt ctggcagcag ttcatatccc 120  
 atcaaggaga tgcaggttat tgtgcctgat ccatctaaga tttttcaaag ttctggaatg 180  
 gttgaatcca agtcagttgg aacattttca cctctgcaaa agcaagagag tcagagggga 240  
 ctttttgttg atagaggtgt 260

<210> 2166  
 <211> 390  
 <212> DNA  
 <213> Glycine max  
 <400> 2166  
 cccacgcgtc cgtacggctg cgagaagacg acagaagggg ggatgacgta tgaagaaatc 60  
 aagaagaaca tgccagagga gtatgaatcc cgcaataagg acaaacttag gtatcgttat 120  
 cctcgtggag agtcttactt agatgttatt caaaggttag aacctgtaat tattgaactt 180  
 gagcgacaac gagcacctgt tgttgtgata tctcaccagg cagttttgag ggcattatat 240  
 gcttatttta ctgacaggcc tttgaaagaa attgcagata ttgagatgcc cctccatagc 300  
 ataatagaaa tacaattggg agttacaggt gtcgaagaga aaagatacaa actaatggac 360  
 tgaaatgaat aactgaagga gagaagaaac 390

<210> 2167  
 <211> 122  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(122)  
 <223> unsure at all n locations

<400> 2167

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 ga 122

<210> 2168  
 <211> 234  
 <212> DNA  
 <213> Glycine max

<400> 2168

tgataatcct ccactcaaga taacatacat ggacaacacg gatcctgctg gaattgatca 60  
 tcagattgca caacttgggc ctgagctagc ttcaaacactt gtgattgtga tatcaaagag 120  
 tggaggtact cctgagacca gaaatggttt attggaagtg cagaaggcct ttcgtgaagc 180  
 aggcttggat tttcctaaac aggggtgttg tataacacaa gaaaattctt tggt 234

<210> 2169  
 <211> 205  
 <212> DNA  
 <213> Glycine max

<400> 2169

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 cagcagccct tcagggtatt gatattagag aaatgcttgc cggatcatca ttgatggatg 120  
 aggctaatag gagtactgtg ttaaggaata accctgcagc tctgctggct ttatgttgg 180  
 attgggctac agatgggtga ggatc 205

<210> 2170

<211> 223  
 <212> DNA  
 <213> Glycine max

<400> 2170

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 gttgggttagc tagatttcca atgtttgact ggggtgggagg tagaacatca gagatgtctg 120  
 cagtgggcct gcttccagca gcccttcaga gcattgacat aagagaaatg cttgctgggtg 180  
 cagcattaat ggatgaggcg aataggagta ctgtgataag gaa 223

<210> 2171  
 <211> 218  
 <212> DNA  
 <213> Glycine max

<400> 2171

tgcagggcgt tgctataact caagaaaatt ctttgctgga taagactgca agaattgacg 60  
 gttgggttagc tagatttcca atgtttgact ggggtgggagg tagaacatca gagatgtctg 120  
 cagtgggcct gcttccagca gcccttcaga gcattgacat aagagaaatg cttgctgggtg 180  
 cagcattaat ggatgaggcg aataggagta ctgtgata 218

<210> 2172  
 <211> 273  
 <212> DNA  
 <213> Glycine max

<400> 2172

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 gactacttgt ttggtatgct acaggggaaca agatcagctc tgtatgccaa taaccgagag 120  
 tccatcacag ttactgtaca agaagtgaca cctagaacag ttggtgctct tattgcactc 180  
 tatgaacgag cagtaggaat ttatgcctcc cttgtcaaca taaatgctta tcatcaacca 240  
 ggtgtggaag ctggttaaaaa agcagcaggt gaa 273

<210> 2173  
 <211> 257  
 <212> DNA  
 <213> Glycine max

<400> 2173

aacaattgag ggaaggtgta cacaatttct ttgtaacatt cattgaggtg ctacgtgata 60

gacctcctgg tcatgattgc gaacttgaac ctggtgtcac atgcggtgac tacttgtttg 120

gtatgctaca gggaacaaga tcagctctgt atgccaataa ccgagagtcc atcacagtta 180

ctgtacaaga agtgacacct agaactgttg gtgctcttat tgcactctat gaacgagcag 240

taggaattta tgcctcc 257

<210> 2174

<211> 248

<212> DNA

<213> Glycine max

<400> 2174

tacggctgcg agaagacgac agaaggggat tgggaacttg aacctggtgt cacatgtggt 60

gactacttgt ttggtatgct acaggaaca aggtcggctt tgtatgcaa taaccgagag 120

tccatcacag ttactgtaca agaagggaca ccaagaacag ttggtgctct tattgggctc 180

tatgaacgag cagtaggaat ttatgcctcc cttgtcaaca taaatgctta tccttttcct 240

cgtgtgga 248

<210> 2175

<211> 236

<212> DNA

<213> Glycine max

<400> 2175

atcctgcagc tttgctggct ttatgttggt attgggctac agatggtgta ggatcaaaag 60

atatggttat cttccatat aaggacagct ttctattatt tagtagatac ttgcaacagt 120

tggtcatgga atctctaggc aaggagtttg acttgaatgg taatcggggtt aatcaaggaa 180

ttagtgtcta tggaataaaa ggaagcacag atcagcatgc ctacattcac caactg 236

<210> 2176

<211> 270

<212> DNA

<213> Glycine max

<400> 2176

cagcatgcct acattcagca actgagggaa ggtgtgcaca atttttttgt gacattcatt 60  
gaggtgctac gcgatagacc acctgggtcat gattgggagc ttgaaccagg tgtcacatgt 120  
ggtgactacc tgtttggtat gctacagga acaagggtcag ccctgtatgc caataaccgt 180  
gaatccatca ctgtcacagt gcaagaagtg acaccagat cagttggtgc cctttagacc 240  
ctttatgaac gggccgttgg aatatatgct 270

<210> 2177  
<211> 259  
<212> DNA  
<213> Glycine max

<400> 2177

ggagtttgac ttgaatggta atcggggttaa tcaaggaatt agtgtctatg gaaataaagg 60  
aagcacagat cagcatgcct acattcaaca actgagggaa ggtgtgcaca atttttttgt 120  
gacattcatt gaggtgctac gcgatagacc acctgggtcat gattgggagc ttgaaccagg 180  
tgtcacatgt ggtgactacc tgtttggtat gctacagga acaagggtcag ccctgtatgc 240  
caataaccgt gaatccatc 259

<210> 2178  
<211> 227  
<212> DNA  
<213> Glycine max

<400> 2178

atagaagtac tgtgttaagg aataaccctg cagctctgct ggctttatgt tggatttggg 60  
ctacagatgg tgtaggatcc aaggatatgg ttattcttcc gtacaaggac agcctgttat 120  
tattcagtag atacttgcag cagctggtca tggaatctct aggcaaggag tttgacttgg 180  
atggtaatcg ggttaatcaa ggaattagtg tctatggaaa caaagga 227

<210> 2179  
<211> 263  
<212> DNA  
<213> Glycine max

<220>  
<221> unsure  
<222> (1)..(263)  
<223> unsure at all n locations

<400> 2179

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gaagtactgt gttaaggaat aaccctgcag ctntgctggc ttangnaagg tattgggcta 120

cagatgggtgt aggaccaagg anatgggttat tcttccgtac aaggacagcc tngtattatt 180

cagtagatac ntgcagcagc tggtcatgga atctctaggc aaggagtttg acttggatgg 240

taatcggggtt aatcaaggaa tag 263

<210> 2180

<211> 263

<212> DNA

<213> Glycine max

<400> 2180

gcgcgatcgc gaatcccgat gagagtcgca tgggtgggaca ctattggctg agggacccta 60

agcgtgcgcc caactcggtc cttaaaacgc agattgagaa cactctcgac gctgtttgca 120

agttcgctaa cgacgtcggt agtggttaaga ttaagcctcc ttcgtctccg gagggtcgat 180

ttactcaaatt attgtctgtg ggaattggag gttctgctct tggaccacag tttgttgcag 240

aagcattggc acctgataat cct 263

<210> 2181

<211> 398

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)..(398)

<223> unsure at all n locations

<400> 2181

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gctttatggt ggtattgggc tacagatggt gtaggatcaa aagatatggt tacccttcca 120

tataaggaca gcttggtatt atttagtaga tacttgcaac agttggatcat ggaatctcta 180

agcaaggagt ttgacttgaa tggtaatcgg gttaatcaag gaattagtgt ctatggaaat 240

aaaggaagca cagatcagca tgcctacatt cagcaactga nggaaggtgt gcacaatttt 300

tttgtgacat tcattgangt gctacgcgat agaccacctg gtcattgattg ggagcttgaa 360  
 caagtgtcac atgtggtgac tacctgtttg gtatgcta 398

<210> 2182  
 <211> 362  
 <212> DNA  
 <213> Glycine max

<400> 2182

gttggagaag ggcgcgatcg cgaatcccga tgagagtcgc atggtgggac actattggct 60  
 gagggaccct aagcgtgcmc ccaactcgtt ccttaaaacg cagattgaga acactctcga 120  
 cgctgtttgc aagttcgtc acgacgtcgt tagtggttaag attaagcctc ctctgtctcc 180  
 ggagggctga tttactcaaa tattgtctgt gggaattgga agttctgctc ttggaccaca 240  
 gtttgttgca gaagcattgg cacctgataa tcctccactc aagataagat ttgtggacaa 300  
 cacggatcct gctggaattg atcatcagat tgcacaactt gggcctgagc tagcttcaac 360  
 ac 362

<210> 2183  
 <211> 243  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(243)  
 <223> unsure at all n locations

<400> 2183

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 gaagattctt tgaggactac aagaagaatg agaacaaaat agttgatgtt gaagactttc 120  
 taccggctga agctgccatt gatgccatca attactccat ggacttgtat gctgcttaca 180  
 tagttgagag ctaaggnact aacttctcta nagacnntgt ancncnntnn gngngctctc 240  
 caa 243

<210> 2184  
 <211> 262  
 <212> DNA  
 <213> Glycine max



<400> 2184

ctcctcttaa tgagaggatt atttcatcca tgaccagaag atctgttgct gcacacccgt 60

ggcacgacct tgagataggg cctggtgctc caacgatctt caattgtgtg attgagattg 120

ggaaagggag caaggtgaaa tatgaactgg acaaaaaatc gggctttatc aagatcgacc 180

gtgtccatta ctcatcagtt gtgtatcctc acaattatgg gtttatccca cgtactattt 240

gtgaggacag tgatcccctg ga 262

<210> 2185

<211> 254

<212> DNA

<213> Glycine max

<400> 2185

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tgatcagggt gagaaagatg acaagataat tgctgtctgt gctgatgatc ctgagtatag 120

gcattacaat gatatcaagg accttcctcc tcaccgttta gctgaaatc gtcgtttctt 180

tgaagattac aagaagaatg agaacaagga agttgcagtg aacgactttc ttcctgcttc 240

agctgcctat gaag 254

<210> 2186

<211> 246

<212> DNA

<213> Glycine max

<400> 2186

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tcaaggaaat tgaaccagct ttgaaaaagc agcttatcat ctctacagta ctcatgactg 120

ttggaattgc aattattagt tggattgctc tgccaacatc cttcacaatt ttcaactttg 180

gcgctcagaa ggaagtaaag agctggcagc tgttcctctg tgtgggtggt ggtctatggg 240

ctggac 246

<210> 2187

<211> 259

<212> DNA

<213> Glycine max

<400> 2187

caacactggc ggtgcttggg ataatgctaa gaagtacata gaggctggtg cgtctgagca 60

tgcaaggacc ctgggccagc aaggatctga accacataag gcagctgtta ttggagatac 120

cattggagac cctcttaaag atacttcagg tccttcactc aacatcctca tcaagctcat 180

ggccgttgag tcgctcgtct tcgcaccatt tttcgccact cacggtggcc tgcttttcaa 240

gatcttttga tttgagggt 259

<210> 2188

<211> 188

<212> DNA

<213> Glycine max

<400> 2188

gcctctgttc cgccaagcgc agataagacc caccgttcag gccaccggct gagttaggtt 60

tccggcgagg atcgggtctg ctctgctgtc ggagcttgcg acggagatag tcgtgccagt 120

gtgcgccgtc atcgggatcg ggtcctggct ggtgcagtgg ttctcgtgt cgcgcgtaa 180

gctcactc 188

<210> 2189

<211> 242

<212> DNA

<213> Glycine max

<400> 2189

ctgctggcaa cactactgct gccataggca agggatttgc tattgggtct gccgctctgg 60

tgtctttggc cctatttggg gcatttgtga gcagggtgg aatttcaact gttgatgtct 120

tgacacccaa ggtctttatt ggactcatag ttgggtgccat gcttccttac tgggttttccg 180

ctatgaccat gaagagtgtt ggaagtgcag ctttgaagat gggtgaggag gttcgtaggc 240

ag 242

<210> 2190

<211> 313

<212> DNA

<213> Glycine max

<220>

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<221>      unsure
<222>      (1)..(313)
<223>      unsure at all n locations
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atanaagcca	gcccntgncg	acttgcnttg	nttagccctg	tcctctntcn	tggcntgggtg	120
ctatnacttc	ngtcctatcn	ngnntcctta	ggctannaat	tgncagcctg	tgccaatgcn	180
aggacnaacc	ttagcagcca	ganagggagt	tggataggct	ttgnatactg	catttaggnc	240
tgggtgcagtg	atggggtttcc	nncntggngg	aatgggtctt	ntggngnnct	acattnacca	300
tcaatctctt	cag					313

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<220>
<221>      unsure
<222>      (1)..(119)
<223>      unsure at all n locations
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aattgggnna gggancnagg ngaaatntgn actggacaca aagtcggggc tnatcaang 119

<400>	2192
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<210> 2193  
 <211> 263  
 <212> DNA  
 <213> Glycine max  
  
 <400> 2193  
  
 gcgcaaccca gctgttattg cagacaacgt aggagcta at gttggagata tcgctgggat 60  
 gggttcagac ttatttgggt cttatgcaga atcatcatgt gcagctttat ttgtagcatc 120  
 catatcatcg tttggaacaa atcatgatca cacagccatg tcatatcctc tcatcataag 180  
 ctccatggga attgtgggtt gcttgattac gactcttttt gcaactgatc tgtttgaact 240  
 taaaaacgtg agccaaatag aac 263

<210> 2194  
 <211> 168  
 <212> DNA  
 <213> Glycine max  
  
 <400> 2194  
  
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 atggttgatc gtatactaca ctcatcagta gtttatcctc acaactatgg gaatattcca 120  
 cgtactatth gtgaggacag tgatcccatg gatgtcttgg gtattatg 168

<210> 2195  
 <211> 194  
 <212> DNA  
 <213> Glycine max  
  
 <400> 2195  
  
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 gattactact ctttttgcaa ctgatttctt tgcatcaag gctgtcaagg aaattgaacc 120  
 agctctaaaa aagcagctta tcatctctac agtactcatg actgttgga ttgccattat 180  
 tagttggatt gctc 194

<210> 2196  
 <211> 190  
 <212> DNA  
 <213> Glycine max  
  
 <400> 2196

gtgatccccct ggatgtcttg attattatgc aggagccggt tcttccaggt tgctttcttc 60  
 gggccaaagc aattggtctc atgcccatga ttgatcaggg ggagaaagat gataaaatta 120  
 ttgctgtctg tgctgatgat cctgagtata gacattacaa tgatatcaaa gagcttcctc 180  
 cacatcgttt 190

<210> 2197  
 <211> 265  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(265)  
 <223> unsure at all n locations

<400> 2197

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 aaccgtccgg ttccacgctt gaatgaaagg attctttcat ctctgtctag gagatcagtt 120  
 gctgctcacc cttgcatgat cttgaaattg gacctggagc gcctatgatt ttcaattgtg 180  
 ttgtggagat cactaaggga agcaagggtca aatacgaact tgacaaaaag acnggattaa 240  
 ttaaggttga tcggattctg tactc 265

<210> 2198  
 <211> 260  
 <212> DNA  
 <213> Glycine max

<400> 2198

tttcaaagta tttgctttta ttttttggtg aaaaagtgtt ttgcttttgc tgttgtacaa 60  
 gatgagtgat gagaatggcg aagaacctcg agaaaaccgt ccggttcac gcttgaatga 120  
 aaggattctt tcattctctg ctaggagatc agttgctgct cacccttggc atgatcttga 180  
 aattggacct ggagcgcctt gattttcaat tgtgttgtgg agatcactaa gggaagcaag 240  
 gtcaaatacg aacttgacaa 260

<210> 2199  
 <211> 236  
 <212> DNA

<213> Glycine max  
 <400> 2199  
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 accggctgag ttaggtttcc ggcgaggatg ggtgctgctc tgctgtcgga gcttgcgacg 120  
 gagatagtcg tgccagtgtg cgccgtcatc gggatcgtgt tctcgtctggc gcagtggctc 180  
 ctcgtgtcgc gcgtcaagct cactccccgac cgcaacggaa cgacgtcgtc gccgcg 236

<210> 2200  
 <211> 272  
 <212> DNA  
 <213> Glycine max  
 <400> 2200  
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 gaattgcaat tattagttgg attgctctgc caacatcctt cacaattttc aactttgggtg 120  
 ctcagaagga agtaaagagc tggcactgtt cctctgtgtg ggtggtgggc tatgggctgg 180  
 acttattatt gcgtttgtta ctgagtacta tacaagcaat gcttacagtc ctgtacaaga 240  
 tgttgctgat tcctgccgga ctggagctgc aa 272

<210> 2201  
 <211> 251  
 <212> DNA  
 <213> Glycine max  
 <400> 2201  
 attgaaccag ctctaaaaaa gcagcttacc atctctacag tactcatgac tgttggaatt 60  
 gcaattatta gttggattgc tctgccaaca tccttcacaa ttttcaactt tgggtgctcag 120  
 aaggaagtaa agagctggca gctgttcctc tgtgtgggtg ttggtctatg ggctggactt 180  
 attattgggt ttgttactga gtactatata agcaatgctt acagtctctgt acaagatgtt 240  
 gctgattcct g 251

<210> 2202  
 <211> 244  
 <212> DNA  
 <213> Glycine max

<400> 2202

cggaaggctt cagtactaag agccagccct gcacatatga taagagcaag ctatgcaagc 60

cagcccttgc gactgcattg tttagcactg tatctttctt gcttggtgct ataacttcag 120

tcctatctgg tttccttggg atgaaaattg caacctatgc caatgcaagg acaaccttgg 180

aagccagaaa gggagttgga aaggctttca ttactgcatt taggtctggt gcagtgatgg 240

gttt 244

<210> 2203

<211> 268

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)..(268)

<223> unsure at all n locations

<400> 2203

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gttttagcact gtatctttct tgcttggtgc tataacttca gtccctatctg gtttccttgg 120

gatgaaaatt gcaacctatg ccaatgcaag gacaaccttg gaagccagaa agggagttgg 180

aaaggcttca ttactgattt aggtctggtg cagtgcacggg tttccttctt gcagcaaattg 240

gtcttttgggt gccctacatt accatcaa 268

<210> 2204

<211> 232

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)..(232)

<223> unsure at all n locations

<400> 2204

tcacccttgg cagcacttag agattgggcc aggagctcca gcagttttca actgtgtggt 60

tgaaattggc aaaggaagta aggttaagta tgagctggac aagacaagtg gacttataaa 120

ggttgatcgt attctttact catcagtagt ctaccacac aactaacgat attnnccaan 180

aaccatttgt gaagacagtg atcctatgga cgtgctgggt ctaatgcagg aa 232

<210> 2205  
 <211> 266  
 <212> DNA  
 <213> Glycine max

<400> 2205

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 gaattctgtc ttctctgtca cggagaactg ttgctgctca cccctggcac gatttagaga 120  
 ttgggccagg agctccagct gttttcaact gtgtggttga aattggcaaa ggcagtaagg 180  
 ttaagtatga gctggacaag acaagtggac ttataaagggt tgatcgtatt ctttactcat 240  
 cagttgtcta cccacacaac tatggt 266

<210> 2206  
 <211> 290  
 <212> DNA  
 <213> Glycine max

<400> 2206

agtttctctt atctctaagt caacatggct caccatgaag attcaagtgt atggaattcg 60  
 agtataacct accctaagct caatgaaaga attttgtctt ctctgtcacg gagaactgtt 120  
 gctgctcacc cctggcacga tttagagatt gggccaggag ctccagctgt tttcaactgt 180  
 gtggttgaat ttggcaaagg cagtaagggt aagtatgagc tggacaagac aagtggactt 240  
 ataaagggtg atcgattctg tactcatcag ttgtctaccc acacaactat 290

<210> 2207  
 <211> 296  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(296)  
 <223> unsure at all n locations

<400> 2207

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 gcatgggaat tcgagtatac ctcaccctaa gctncaatga aagaattctg tcttctctgt 120



cacggagaac tgttgctgct caccctggc acgatttaga gattggggcc aggagctcca 180  
gctgttttca actgtgtggt tgaaattggc aaaggcagta aggttaagta tgagctggac 240  
aagacaagtg gacttataaa ggntgatcgt attctttact catcagttgt ctaccc 296

<210> 2208  
<211> 259  
<212> DNA  
<213> Glycine max

<400> 2208

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gtatacctca ccctaagctc aatgaaagaa ttctgtcttc tctgtcacgg agaactgttg 120  
ctgctcacc cttggcagat ttagagattg ggccaggagc tccagctgtt ttcaactgtg 180  
tggttgaaat tggcaaaggc agtaaggta agtatgagct ggacaagaca agtggactta 240  
taaaggttga tcgtattct 259

<210> 2209  
<211> 287  
<212> DNA  
<213> Glycine max

<400> 2209

tttcgcactt tctttcagtc accatctccg actctttctc ttatctctaa gtcaacatgg 60  
ctcaccttga agattcaagt gcatggaatt cgagtatacc tcaccctaag ctcaatgaaa 120  
gaattctgtc ttctctgtca cggagaactg ttgctgctca ccctggcac gatttagaga 180  
ttggggccagg agctccagct gttttcaact gtgtgggttga aattggcaaa ggcagtaagg 240  
ttaagtatga gctggacaag acaagtggac ttataaagggt tgatcgt 287

<210> 2210  
<211> 281  
<212> DNA  
<213> Glycine max

<400> 2210

ctttcactca ccagtcacca cctctgaact ctctctctca tctataagtc aacatggctc 60  
atcatgaaga ttcaagtgca tggaattcga gtaaacctca ccctaagctc aatgaaagaa 120

ttctgtcttc tctgtcacgg agaactgttg ctgctcacc ctggcacgac ttagagattg 180  
ggccaggagc tccagcagtt ttcaactgtg tggttgaaat tggcaaagga agtaaggtta 240  
agtatgagct ggacaagaca agtggactta taaagggtga t 281

<210> 2211  
<211> 242  
<212> DNA  
<213> Glycine max

<400> 2211

ctctcatcta taagtcaaca tggctcatca tgaagattca agtgcattga attcgagtaa 60  
acctcaccct aagctcaatg aaagaattct gtcttctctg tcacggagaa ctgttgctgc 120  
tcacccttgg cactgacttag agattggggc aggagctcca gcagttttca actgtgtggt 180  
tgaaattggc aaaggaagta aggttaagta tgagctggac aagacaagtg gacttataaa 240  
gg 242

<210> 2212  
<211> 255  
<212> DNA  
<213> Glycine max

<400> 2212

tccgactctt tctcttatct ctaagtcaac atggctcacc atgaagattc aagtgtatgg 60  
tattcgagta tacctcacc taagctcaat gaaagaattt tgtcttctct gtcacggaga 120  
actgttgctg ctcaccctg gcacgattta gagattgggc caggagctcc agctgttttc 180  
aactgtgtgg ttgaaattgg caaaggcagt aagggttaagt atgagctgga caagacaagt 240  
ggacttataa aggtt 255

<210> 2213  
<211> 246  
<212> DNA  
<213> Glycine max

<400> 2213

tctgaactct ctctctcatc tataagtcaa catggctcat catgaagatt caagtgcatt 60  
gaattcgagt aaacctcacc ctaagctcaa tgaaagaatt ctgtcttctc tgtcacggag 120

aactgttgct gctcaccctt ggcacgactt agagattggg ccaggagctc cagcagtttt 180  
 caactgtgtg gttgaaattg gcaaaggaag taaggттаag tatgagctgg acaagacaag 240  
 tggact 246

<210> 2214  
 <211> 246  
 <212> DNA  
 <213> Glycine max

<400> 2214

tctgaactct ctctctcatc tataagtcaa catggctcat catgaagatt caagtgcatt 60  
 gaattcgagt aaacctcacc ctaagctcaa tgaaagaatt ctgtcttctc tgtcacggag 120  
 aactgttgct gctcaccctt ggcacgactt agagattggg ccaggagctc cagcagtttt 180  
 caactgtgtg gttgaaattg gcaaaggaag taaggттаag tatgagctgg acaagacaag 240  
 tggact 246

<210> 2215  
 <211> 266  
 <212> DNA  
 <213> Glycine max

<400> 2215

ctcaccagtc accacctctg aactctctct ctcatctata agtcaacatg gctcatcatg 60  
 aagattcaag tgcattggaat tcgagtaaac ctcacctaa gctcaatgaa agaattctgt 120  
 cttctctgtc acggagaact gttgctgctc acccctggca cgacttagag attgggccag 180  
 gagctccagc agttttcaac tgtgtgggtt gaaattggca aaggaagtaa ggttaagtat 240  
 gagctggaca agacaagtgg acttat 266

<210> 2216  
 <211> 248  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(248)  
 <223> unsure at all n locations

<400> 2216

cagtcaccac ctctgaactc tctctctcat ctataagtca acatggctca tcatgaagat 60

tcaagtgcac ggaattcgag taaacctcac cctaagctca atgaaagaat tctgtcttct 120

ctgtcacgga gaactgttgc tgctcacccc tggcacgact tagagattgg gccaggagct 180

ccagcagttt tcaactgtgt ggttgaaatt ggcaaaggaa gtaagggtta gtatgagnct 240

gacaagac 248

<210> 2217

<211> 242

<212> DNA

<213> Glycine max

<400> 2217

ccagtcacca cctctgaact ctctctctca tctataagtc aacatggctc atcatgaaga 60

ttcaagtgca tggaattcga gtaaacctca ccctaagctc aatgaaagaa ttctgtcttc 120

tctgtcacgg agaactgttg ctgtcacccc ctggcacgac ttagagattg ggccaggagc 180

tccagcagtt ttcaactgtg tgggttgaaat tggcaaaggaa agtaagggtta agtatgagct 240

gg 242

<210> 2218

<211> 246

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)..(246)

<223> unsure at all n locations

<400> 2218

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nattcgagta tacctcaccc taagctcaat gaaagaattc tgtcttctct gtcacggaga 120

actgttgctg ctcacccttg gcacgatttg agattgggcc aggagctcca gctgttttca 180

actgtgtggt tgaaattggc aaaggcagta aggttangta tgagctggac agacaagnng 240

attata 246

<210> 2219  
 <211> 249  
 <212> DNA  
 <213> Glycine max  
  
 <400> 2219  
  
 gtcaccacct ctgaactctc tctctcatct ataagtcaac atggctcatc atgaagattc 60  
 aagtgcattg aattcgagta aacctcacc taagctcaat gaaagaattc tgtcttctct 120  
 gtcacggaga actgttgctg ctcaccctg gcacgactta gagattgggc caggagctcc 180  
 agcagttttc aactgtgtgg ttgaaattgg caaaggaata acgtaagtat gagctggcag 240  
 acaagtgga 249

<210> 2220  
 <211> 196  
 <212> DNA  
 <213> Glycine max  
  
 <400> 2220  
  
 ctgaactctc tctctcatct ataagtcaac atggctcatc atgaagcatt caagtgcac 60  
 gaattcgagt agacctcacc ctaagctcaa tgaaagaatt ctgtcatctc tgtcacggag 120  
 aactgttgct gctcaccct ggcacgactt agagattggg ccaggagtgc cagcagtttt 180  
 caactgtgtg gttgaa 196

<210> 2221  
 <211> 227  
 <212> DNA  
 <213> Glycine max  
  
 <400> 2221  
  
 ccaagacgag cttcaccttg cgccgaaggc cacagatggg tgaaaccgat atggatgccg 60  
 aaactgttgc aaatgtgggt ccaccaagg agactcctca cagtgttccc atctcttata 120  
 attcctcaca ctcacacct tctcttaatg agaggattat ttcatccatg accagaagat 180  
 ctgttgctgc acaccgtgg cacgaccttg agatagggcc tgggtgct 227

<210> 2222  
 <211> 253  
 <212> DNA  
 <213> Glycine max

<400> 2222

gaacaatagt agcaagcaga gcccgaagac gagcttcacc ttgcgccgaa gggccacaga 60

tggttgaaac cgatatggat gccgaaactg ttgcaaatgt ggttcacca aaggagactc 120

caaacatggt cccatctctt atcattcctc acactcacac cctcctctta atgagagatt 180

atttcatcca tgaccagaag atctgttgct gcacacccgt ggcacgacct tgagataggg 240

cctggtgctc caa 253

<210> 2223

<211> 276

<212> DNA

<213> Glycine max

<400> 2223

gtcgaaatag ggaaaggaag caaggtgaaa tatgaacttg aaaaagaac tggacttatt 60

atggttgatc gtatacttta ctcatcagtt gtttatactc acaactatgg gttcattcca 120

cgtactatth gtgacgacgg tgatcccatg gatgtcttgg ttattatgca ggagccagtt 180

cttcggggtt gctttcttcg ggccaaagct attggtctca tgcctatgat tgatcagggg 240

gagacagatg acaagataat tgctgtctgt gctgat 276

<210> 2224

<211> 269

<212> DNA

<213> Glycine max

<400> 2224

taggacctga agctccaaag atcttcaact gtgtggttga aattgggaaa ggaagtaagg 60

tgaaatatga acttcacaaa agaactgggtc ttattatggg tgatcgtatc ctttactcat 120

cggctgtgta tcctcacaaac tatgggttta tcccacgtac tatttgtgag gatgggtgatc 180

ccatggatgt cttggttata atgcaggagc cagttcttcc aggttgcttt ctacggggcca 240

aagctattgg actcatgcct atgattgat 269

<210> 2225

<211> 276

<212> DNA

<213> Glycine max

<400> 2225

cttaacgaga ggattctttc atccatttcc aggagacacg ttgctgcaca cccgtggcac 60

gatcttgaga taggaccoga agctccaaag atcttcaact gtgtggtcga aatagggaaa 120

ggaagcaagg tgaaatatga acttgacaaa agaactggac ttattatggt tgatcgtata 180

ctttactcat cagttgttta tcttcacaac tatgggttta ttccacgtac tatttgtgag 240

gacggtgatc ccatggatgt cttggtatta tgcagg 276

<210> 2226

<211> 240

<212> DNA

<213> Glycine max

<400> 2226

ggaaacatgt tgctgtcac ccgtggcatg atcttgagat aggacctgaa gctccaaaga 60

tcttcaactg tgtgggtgaa attgggaaag gaagtaagggt gaaatatgaa cttgacaaaa 120

gaactgggtct tattatgggt gatcgtatcc ttactcatc ggttgtgtat cctcacaact 180

atgggtttat cccacgtact atttgtgagg acggtgatcc catggatgtc ttggttatca 240

<210> 2227

<211> 239

<212> DNA

<213> Glycine max

<400> 2227

acttattatg gttgatcgta tactttactc atcagttggt tctctcaca actatggggt 60

tattccacgt actatttgtg aggacgggtga tcccatggat gtcttgggtta ttatgcagga 120

gccagtcttc cgggttgctt tcttcgggcc aaagctattg gtctcatgcc tatgattgat 180

cagggtgaga aagatgacaa gataattgct gtctgtgctg atgatcctga gtataggca 239

<210> 2228

<211> 268

<212> DNA

<213> Glycine max

<400> 2228

taggacctga agctccaaag atcttcaact gtgtgggtga aattgggaaa ggaagtaagg 60

tgaaatatga acttgacaaa agaactggtc ttattatggt tgatcgtatc ctttcctcat 120  
 cggttgtgta tcctcacaac tatgggttta tcccacgtac tatttgtgag gatggtgatc 180  
 ccatggatgt cttggttatc atgcaggagc cagttcttcc aggttgcttt ctacgggcca 240  
 aagctattgg actcatgcct atgattga 268

<210> 2229  
 <211> 269  
 <212> DNA  
 <213> Glycine max

<400> 2229

ctgtttcttc tttttctcca accttcggtt caccaccaca cttacattac tttgtcgaaa 60  
 tggctccacc aattgagacc ccaaacaagg tttccagcta tcaacagtcc ccaaaccctc 120  
 gtcttaacga gaggattctt agatacattt ccaggagaca cggttgctgca caccctgggc 180  
 acgatcttga gataggaccc gtagctccaa agatcttcaa ctgtgtgggc gaaataggga 240  
 aaggaagcaa ggtgaaatat gaacttgac 269

<210> 2230  
 <211> 269  
 <212> DNA  
 <213> Glycine max

<400> 2230

ttctcactct agatctgtgt ttctctctcc aaccttcggt tcaccacact tccatcactt 60  
 gtcgagtgta gaaatggctc caccaattga gaccccaacc aaggtttcca gctatcagca 120  
 ctccccaaac cctcgtctta acgagaggat tctttcatcc atttccagga aacatgttgc 180  
 tgctcaccgc tggcatgatc ttgagatagg acctgaagct ccaaagatct tcaactgtgt 240  
 gggttgaaatt gggaaaggca gtaaggta 269

<210> 2231  
 <211> 283  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(283)



<223>        unsure at all n locations

<400>        2231

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atttcatttc actcactcan tcttcgtttc gtttctcttt ctactcttag atctgtgttt   60
ctctctacca accttcgttt caccacactt ccatcacttg tcgagtgtag aaatggctcc  120
accaattgag accccaacca aggtttccag ctatcagcac tcccanacc ctccgtctta  180
acgagaggat tctttcatcc atttccagga aacatgttgc tgctcaccgc tggcatgatc  240
ttgagatagg acctgaagct ccaaagatct tcaactgtgt ggt                      283
```

<210>        2232

<211>        269

<212>        DNA

<213>        Glycine max

<400>        2232

```
attccacaca caccacaaca tcacactctc tagatctctg tttcttcttt ttctccaacc   60
ttcgtttcac caacacactt acattacttt gtcgaaatgg ctccaccaat tgagacccca  120
aacaagggtt ccagctatca acagtcccca aaccctcgtc ttaacgagag gattctttca  180
tccattttcca ggagacacgt tgctgcacac ccgtggcacg atcttgagat aggacccgaa  240
gctccaaaga tcttcaactg tgtggtcga                      269
```

<210>        2233

<211>        444

<212>        DNA

<213>        Glycine max

<220>

<221>        unsure

<222>        (1)..(444)

<223>        unsure at all n locations

<400>        2233

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tacggctgcg agaagacgac agaaggggac acacgttctc tgtgactgcc tctgttccgc   60
caagcgcagc attttcccac cgttcaggcc accggctgag ttaggtttcc ggcgaggatg  120
ggtgctgctc tgctgtcgga gcttgcgacg gagatagtcg tgccagtgtg cgccgtcatc  180
gggatcgtgt tctcgctggt gcagtggttc ctctgtctgc gcgtcaagct cactcccgac  240
cgcaacggaa cgacgtctgc gccgcgcaac aacaaaaacg gctacggcga cttcctcatt  300
```

gaagaggaag aaggcatcaa cgaccacagc gtcgttgtga aatgcgctga gatacagaac 360  
gctatctccg aaggtgcaac atcctttctt ttcactgaat atcaatatgt gnggattttc 420  
atggttgctt ttgcaatact gatc 444

<210> 2234  
<211> 436  
<212> DNA  
<213> Glycine max  
<220>  
<221> unsure  
<222> (1)..(436)  
<223> unsure at all n locations  
<400> 2234

ctgcctctgt tccgccaagc gcagcatttt cccaccgttc aggccaccgg ctgagttagg 60  
tttccggcga ggatgggtgc tgctctgctg tcggagcttg cgacggagat agtcgtgcca 120  
gtgtgcgccg tcatcgggat cgtgttctcg ctggtgcagt ggttcctcgt gtcgcgcgtc 180  
aagctcactc ccgaccgcaa cggaacgacg tcgtcgccgc gcaacaacaa aaacggctac 240  
ggcgacttcc tcattgaaga agaagaaagc atcaacgacc acagcgtcgt tgtgaaatgc 300  
gctgagatac agaacgctat ctccgaaggt gcaacatcct ttcttttcac tgaatatcaa 360  
tatgtgggga tcttcatggt tgcttttgca atactgatct tnccttttct gtgctctgtg 420  
gaaggcttca gtacta 436

<210> 2235  
<211> 408  
<212> DNA  
<213> Glycine max  
<400> 2235

acggctgcga gaagacgaca gaagggggag ctccctcac acattctctg tgactgcctc 60  
tgttccgcg aaccagcat tttccaccg ttcgggccac cggcggagtt agttttccgg 120  
caaggatggg tgctgctctg ctgtctgagc ttgcgacgga gatagttgtg ccggcctgcg 180  
ccgtcatcgg gatcgtgttc tcgttggtgc agtggttcct cgtgtcgcgc gtcaagctca 240  
ctcccgaccg aaacggaacg acgtcgtcgc cgcgcaacaa caagaacggc tacggcgact 300

tcttcattga ggaggaagaa ggcacaaacg accacagcgt cgttgtgaaa tgcgctgaga 360  
 tacagaacgc tatctccgaa agtgcaacat cctttctttt cactgaat 408

<210> 2236  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<400> 2236

gactctttct cttatctcta agtcaacatg gctcaccttg aagattcaag tgcattggaat 60  
 tcgagtatac ctcaccctaa gctcaatgaa agaattctgt cttctctgtc acggagaact 120  
 gttgctgctc acccctggca cgatttagag attgggccag gagctccagc tgttttcaac 180  
 tgtgtggttg aaattggcaa aggcagtaag gttaagtatg agctggacaa gacaagtgga 240  
 cttataaagg ttgatcgtat tctttactca tcagttgtct acccacacaa ctatggtttt 300  
 atcccaagaa ccatttgtga agacagtgat cctatggacg tgctggttct aatgcaggaa 360  
 cccgtgcttc ctggttcctt cctcgtgct cgtgct 396

<210> 2237  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<400> 2237

agtaaggctg cgagaagacg acagaagggg acagaagaat agtagcaatc agagactgaa 60  
 gacgagcttc cccttgcgcc gaagggccac cgatggttga aaccgagatg gatgcagaaa 120  
 ctggtgcaaa tgtggttcca ccaaaggaga ctccaaatag tgtttccatt tctcatcatt 180  
 cctcacaccc tccccttaat gagaggatta tttcatccat gaccaggaga tctggtgctg 240  
 cacacccatg gcatgacctt gagaatagga ctggtgctca aattatcttc aattgtgtga 300  
 ttgaaattgg gaaagggacc aaggtgaaat atgaactgga caaaaagtcg gggcttatca 360  
 agatcgaccg cgtgct 376

<210> 2238  
 <211> 352  
 <212> DNA  
 <213> Glycine max

<400> 2238

agtacggctg cgagaagacg acagaagggg acagaacaat agtagcaagc agagccccc 60

gatctgtgct tgaaccttca cgtgtgtttc cttccttctg cagacgagct tcaccttgcg 120

ccgaagggcc acagatgggt gaaaccgata tggatgccga aactgttgca aatgtgggtc 180

caccaaagga gactccaaac agtgttccca tctcttatca ttcctcacac tcacaccctc 240

ctcttaatga gaggattatt tcatccatga ccagaagatc tgttgctgca caccctgggc 300

acgaccttga gataaggcct gatgtcctca cgatcttcaa ttgtgtgatt ga 352

<210> 2239

<211> 251

<212> DNA

<213> Glycine max

<400> 2239

agtacggctg cgagaagacg acagaagggg cacaccctg gcacgatctt gagataagac 60

ccgaagctcc aaagatcttc aactgtgtgg tcgaaataag gaaaggaagc aaggtgaaat 120

atgaacttga caaaagaact ggacttatta tggttgatcg tatactttac tcatcagttg 180

tttatactca caactatggg tttattccac gtactatttg tgaggacggg gattccatgg 240

atgtcctggg t 251

<210> 2240

<211> 401

<212> DNA

<213> Glycine max

<400> 2240

gagactcaac aagcattcca ctcacacctc atcgtttctc tctctagatc tctgtttctt 60

ctttttctcc aaccttcgtt tcaccaccac acttacatta ctttgctgaa atgggtccac 120

caattgagac cccaacaag gtttccagct atcaacagtc cccaaccct cgtcttaacg 180

agaggattct tcatccatt tccaggagac acgttgctgc acaccctgg cacgatcttg 240

agataggacc cgaagctcca aagatcttca actgtgtggg cgaaataggg aaaggaagca 300

aggtgaaata tgaacttgct aaaagaactg gacttattat ggttgatcgt atactttact 360

catcagttgt ttatcctcac aactatgggt ttattccacg t 401

<210> 2241  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(411)  
 <223> unsure at all n locations

<400> 2241

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agtacggctg cgagagacga cagaagggga gactcaacaa gcattccact cacacctcat 60
cgtttctctc tctagatctc tgtttcttct ttttctccaa ctttcgtttt accaccacac 120
ttacattact ttgtcgaaat ggctccacca attgagaccc caaacaaggt ttccagctat 180
caacagtccc caaacctctg tcttaacgag aggattcttt catccatttc cgggagacac 240
gttgctgcac acccgtggca cgatcttgag atanngaccg aagctccaaa gatcttcaac 300
tgtgtggctg anatangga aggaagcaag gtgaaatatg aacttgacaa aagaactgga 360
cttattatgg ttgatcgtat actttactca tcagttgttt atcctcaca c 411
  
```

<210> 2242  
 <211> 273  
 <212> DNA  
 <213> Glycine max

<400> 2242

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caacaacaac aacaacgttg tagtgtgttg ttttgttttt tagtgcagtt tatttttttg 60
gcatcaaagt ggttgaatcc atggattgtg gttatggat tcccaggga ctctcagatc 120
ttcagaagat tcggtctttg taccagccag agtccctcc ttgtctccag ggaaccactg 180
tgaggggttg atttggtgac gcaaccacca ctgctgaccc cactgatgca gtcaccgtct 240
gcagggcttt tcgtggcgct tgtggacacc ttt 273
  
```

<210> 2243  
 <211> 340  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(340)

<223>        unsure at all n locations

<400>        2243

```
aaccatggct atgtctacta ttttgctttt gactttcttt tctttcattt atggcagtgc   60
agctactcat cacgtttata gaaatcttca gagtttatct tctgattcct ccaaccaacc  120
tnacagaact gcttatcact tccaacctcc caagaattgg ataaatgatc ccaatggacc  180
atgagatatg caggacttta ccacctattc tatcaataca atcctaaagg tgcagtttgg  240
ggaaatattg tgtgggcaca ttcagtgtca aaggatctng tgaattggac tccactagat  300
cctgccattt ttncatctca accgtccgat ataatggctg                               340
```

<210>        2244

<211>        273

<212>        DNA

<213>        Glycine max

<220>

<221>        unsure

<222>        (1)..(273)

<223>        unsure at all n locations

<400>        2244

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aaaatggang gtagtcattg gtgctcaaaa tggggatgaa gggaagacaa ttctctacca   60
aagtgaggat tttgttaatt ggagtccgga attgaaccct ttttttgcaa cagataacac  120
tggagtttgt gagtgtccag atttttnctc ctgtgtccat caatagcaca aatggggtgg  180
atncatctgt ccaaagtnca aagtgttaga acatgtcttg aagataacna ctacgtagac  240
atcaggatat natcttcngg taaataggtc tat                               273
```

<210>        2245

<211>        276

<212>        DNA

<213>        Glycine max

<400>        2245

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aacaccctca gaaccctgtc atgagtccac caagtggagt tgccgtgaat aacttcagag   60
acccttcaac tgcttggcag ggaaaggatg gaaaatggag ggtagtaatt ggtgctcaaa  120
atggtgatga agggaagaca attctctacc aaagtgagga ctttgттаат tggaaagtgg  180
atcctaатcc cttctacgca tcagataata ccggagtttg tgagtgtcca gacttcttcc  240
```

ctgttaacat cagtggcagc aaaaatgggg tggata 276

<210> 2246  
 <211> 267  
 <212> DNA  
 <213> Glycine max

<400> 2246

gctaacatga tcaattcaag ctcatttagg gatcctacca ctgcttggct aggcaaagat 60  
 ggggtactgga ggggtgctgat tggaagcaaa atacacacta ggggtatggc aattttgtac 120  
 aagagcaaaa actttgttaa ttgggttcaa gccaaacaac ccctacattc agctgaaggc 180  
 actggaatgt gggagtgcc tgatttctat ccagtgctga ataataaacc atcatcaact 240  
 attggtcttg acacatctgt gaatggt 267

<210> 2247  
 <211> 253  
 <212> DNA  
 <213> Glycine max

<400> 2247

ccctaattgtc aagacgagtt cacttagaag ttgattgac cgctccatta ttgagagttt 60  
 tggggagaaa gggagaattt gtattaccag tagagtttat ccctcgttgg ctattgacaa 120  
 agatgcacat cttgatgttt tcaagaatgg aagccagagt gtggtgatct ctgaactgaa 180  
 tgcttggagc atgaaggaag cagaatttag ttaagaagaa agcacaatta agctgtaact 240  
 aaaaagattt gga 253

<210> 2248  
 <211> 276  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(276)  
 <223> unsure at all n locations

<400> 2248

cttcaaacca agacattagc natctagctc ttgttgacat tcnaatacac tttggtagct 60

atgatcatgg agatcaatgc atcccccgac aacattaatt cagtcaagta caacgtacat 120  
 gaaaaacagc cttaccgaac ttggtaccac tttcagcccc cacaaaattg gatgaatgat 180  
 ccaaatggac caatgtacta caaaggagtt taccactttt tctaccaaca taacccttat 240  
 gcaccaacct ttggtaggca tatggtatgg ggtcnt 276

<210> 2249  
 <211> 261  
 <212> DNA  
 <213> Glycine max

<400> 2249

cctagctctt gttgacattc caataacttt ggtgctatga tcatggagat caatgcatcc 60  
 cccgacaaca ttaattcagt caagtacaac gtacatgaaa aacagcctta ccgaacttgg 120  
 taccactttc agccccaca aaattggatg aatgatccaa atggaccaat gtactacaaa 180  
 ggagtttacc actttttcta ccaacataac gcttatgcac caactttggt aggctatggt 240  
 atgggggtcat ccgcatctat g 261

<210> 2250  
 <211> 339  
 <212> DNA  
 <213> Glycine max

<400> 2250

cgtccgatgg attaaaggat agtcaaactg tcctaagata tgactatgga aaatattatg 60  
 cctcaaaaac catttttgag gatggaaaga acagaatggg cttattgggt tgggttaatg 120  
 aatcctcaag tgtttcggat gatatcaaga aaggatgggc tggaatccat actattccaa 180  
 gggccatctg gcttcataaa tctggaaaac agttggtgca atggccggtg gtggaacttg 240  
 aaagcttacg tgtgaatcct gtccactggc ccaacaaagt ggtcaaagg ggtgaaatgc 300  
 ttcaagttac tgggtgttact tgcgcacaag ctgacgttg 339

<210> 2251  
 <211> 437  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure



<222> (1)..(437)  
 <223> unsure at all n locations

<400> 2251

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cgaaaaacca tttntgagga tggaaagaac agtaaggtct tattgggttg ggtaaatgaa 60
tcctcaagtg tttcggatga tatcaagaaa ggatgggctg gaatccatac tattccaagg 120
gccatctggc ttcataaatc tggaaaacag ttggtgcaat ggccggtggg ggaacttgaa 180
agcttacgtg tgaatcctgt cactggccc accaaagtgg tcaaaggtgg tgaaatgctt 240
caagttactg gtgttactgc ggcacaggct gacgttgaaa tttcatttga cgtgaatgag 300
tttgaaaagg gcgaagtatt ggaccaatgg gtggatcccc aaattctggg tagtagaaag 360
ggtgcagccg taaaggggtgg tttgggaccc tatggcttgc tagtttttgc ttctcgtggc 420
ttgcaagagt acacggc 437
```

<210> 2252  
 <211> 352  
 <212> DNA  
 <213> Glycine max

<400> 2252

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catggccgta tctccaattt tgctgttgtt ggctatctgc tatctcattt atggcacggg 60
tggtcttccc attgaatcta cccaccatgt ttacagaaat cttcagactc tatcttctga 120
ttcctctgat caaccttata gaaccgctta ccatttccaa cctcccaaaa attggataaa 180
tgacccta at ggaccaatga ggtacaaatg actttatcat ctcttctacc aatacaattc 240
aaaaggtgct gtatggggta atattgtgtg gcccactca gtatcaa atctcgtgta 300
ttggactcct ctagatcatg ccatctaccc tctcaacct tatgatatca ac 352
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<210> 2253  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<400> 2253

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attccattaa aagctatacc atggccatat ctccaatttt gttgttggct atcttatctg 60
tcatttatgg caatggtgtt cttcccattg aagctaccca tcatgtttac agaaatcttc 120
agactctatc ttctgattcc tctgatcaac cttatagaac tgcttaccat ttccaacctc 180
```

gcaaaaattg gataaatgac cctaattggac caatgaggta caaaggactt taccatctgt 240  
tctatcaata caatccaaaa ggtgccgtat ggggcaatat tgtctggggc cactcaatat 300  
caaatgatct tgtgaattgg actccactgg atcatgccat ctacccttct caaccgtctg 360  
atataaacgg ttgttggtca ggctcagcca caatac 396

<210> 2254  
<211> 451  
<212> DNA  
<213> Glycine max

<220>  
<221> unsure  
<222> (1)..(451)  
<223> unsure at all n locations

<400> 2254

ggccgtatct ccaattttgt tgttggtggc tatcttctct ctcatttatg gcaatggat 60  
tcttccatt gaagctaccc accatgttta cagaaatctt cagactctat cttctgattc 120  
ctctgatcaa ccttatagaa ccgcttacca tttccaacct cccaaaaatt ggataaatga 180  
ccctaattgga ccaatgaggt acaaaggact ttatcatctc ttctaccaat acaatccaaa 240  
aggtgctggt tggggtaata ttgtgtgggc cactcagta tcaaaggatc ttgtgaattg 300  
gacccctcta gatcatgcca tctacccttc tcaaccgtct gatatcaacg gttgttggtc 360  
aggctcagcc acaatacttc ctgggggcaa accagccatt ntatacacag gaattgacct 420  
taataatcac caagttcaaa acttagccct a 451

<210> 2255  
<211> 283  
<212> DNA  
<213> Glycine max

<220>  
<221> unsure  
<222> (1)..(283)  
<223> unsure at all n locations

<400> 2255

gttttcatag gcttctnttt tctcttggtg cagtnacgaa cttctgaaga antggcagat 60  
ncatccttng acacactctc actctttccg cganaggttt cangacaact ctcaactggt 120

cacaggaacg aaattttngc ccttgctgtg caaggcttga agccangggc aagggaatnc 180  
 tgcaacatgc accaagtggg tncagagttt gnagacatcc ctgaggagan cagaaagaan 240  
 ctgccaagat ggtgtcttgg agaagttttg agntccacac agg 283

<210> 2256  
 <211> 267  
 <212> DNA  
 <213> Glycine max

<400> 2256

aagtcagtgg tactgaccat actcatattt tgcgagttcc attcagatca gagtcaggaa 60  
 ctctccgtaa atggatttca aggtttgatg tgtggcctta tctagagact tatgcagagg 120  
 atgttgccag tgaaattgct gctgagttac aagggtatcc tgatttcac attggaaact 180  
 acagtgatgg gaatcttggt gcatctttat tggcttataa aatgggaggt acacagtgca 240  
 caatcgcgca tgcacttgag aagacaa 267

<210> 2257  
 <211> 264  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(264)  
 <223> unsure at all n locations

<400> 2257

agtacacatg gcaaatttac tcacagaggc ttctcactct caaggntaga nacangcttc 60  
 cagaagccat agacaccagt gagagtgaga agcctctgga agcnngtgtc taaccttgac 120  
 cgccgtgaga gccgccgcta tctcgagatg tncatgctc tcaagtaccg caaatnggcc 180  
 gagtcgngcc ccttgctggt gagtaaactg aggatgaaga gncggntaaa gaaatggagg 240  
 aaccggcttt ttgtttctca ttgg 264

<210> 2258  
 <211> 119  
 <212> DNA  
 <213> Glycine max

<220>  
 <221>       unsure  
 <222>       (1)..(119)  
 <223>       unsure at all n locations  
  
 <400>       2258  
  
 tactgctnaa cgggtattgg aaatgatgca tctgctantg gatattcttc aggctcctga   60  
 tccttccnca caacatacgn gnngccgnnt ngcggnccggc ggngctgggg ggggnngggc   119  
  
  
 <210>       2259  
 <211>       271  
 <212>       DNA  
 <213>       Glycine max  
  
 <220>  
 <221>       unsure  
 <222>       (1)..(271)  
 <223>       unsure at all n locations  
  
 <400>       2259  
  
 gtgnnaagct catgttatct acagctgaga attcaactta aatggatttg aatgttcata   60  
 tgtgtagtgc acaatcgcg c atgcacttga gaagacaaaa tatccagatt cagatttata   120  
 ttggaagaaa tttgaggata aataccactt ttcatgccaa tttactgcng acctaatagc   180  
 catgaattct gctgatttta tcatcaccag tacataccag gagattgcng gaacgtaagt   240  
 accgttttca tgatatatat gggttacttca g                                   271  
  
  
 <210>       2260  
 <211>       245  
 <212>       DNA  
 <213>       Glycine max  
  
 <400>       2260  
  
 ggcttggtga atgctttggt aaaagctcca agctgagaga gcttgtgaat cttgtggtag   60  
 ttggtggcta cattgatgta cagaagtcta cggacataga agaaatgagg gagatagaga   120  
 aaatgcacaa tctcatagaa gaatacaact tacatggcca attccgttgg ataaaggccc   180  
 aaatgaatcg cgctcgtaat ggagagctct accgttatat tgctgatgtg aaagggtgctt   240  
 ttgtg   245  
  
  
 <210>       2261

<211> 98  
 <212> DNA  
 <213> Glycine max

<400> 2261

catgagcttg ccaaagagtt gcaaggtcag ccagattcga ttgtcggaaa ctacagtgat 60  
 ggaaacattg ttgcctcttt gttggcacat aaattagg 98

<210> 2262  
 <211> 209  
 <212> DNA  
 <213> Glycine max

<400> 2262

actctatata acccacctct ctttattgcy ttcattctgt tttactgttg aagtctttca 60  
 ctagccaata gccaccgatc atttgacctg gttcacagtc tacgtgagag gcttgatgaa 120  
 accctcactg ccaacaggaa tgaaatttag gcccatcagt caaggatcga tgtcaagggc 180  
 aaaggcatca tacaaaaaca ccaggatcat 209

<210> 2263  
 <211> 175  
 <212> DNA  
 <213> Glycine max

<400> 2263

cagaattcaa aacgcagatg cactccaaca tggtctgagg aaagctgagg agtatcaggg 60  
 cacagtgcct cctgaaactc cctactcaga atttgagcac aagttccagg agattggttt 120  
 ggagagaggg tggggtgaca acgcggagggt gatccttgag tcaattcaaa ttctc 175

<210> 2264  
 <211> 263  
 <212> DNA  
 <213> Glycine max

<400> 2264

tggtgtatag agaatgtcgt gttgctgac attccattgg gccattggaa attcgtgttg 60  
 tgaggagtgg gagctttaag gagcttatag atgatgcagt ctcaagaggt gcggccataa 120  
 atcaagaaga tgtgtggcct catcgagacc tacagattga acggccaatt cagatggata 180

tcgtctcaga tgaaccgtgt gaggaacgaa gagctctacc gtgtcgtctg tgacacaagg 240  
 ggtgcctatg tgcaactgca gtt 263

<210> 2265  
 <211> 279  
 <212> DNA  
 <213> Glycine max

<400> 2265

ctccgagcac aagttcgtgc tgaaggacaa gaagaagccg atcatcttct cgatggcgcg 60  
 tctcgaccgc gtgaagaaca tgacaggcct ggtggagatg tacggcaaga acgcgcgcct 120  
 gagggagctg gcgaacctcg tgatcgtcgc cggtgaccac ggcaaggagt ccaaggacag 180  
 ggaggagcag gcggagttca agaagatgta cagcctcatc gacgagtaca agttgaaggg 240  
 ccatatccgg tggatctcgg cgcagcatga accgcgtcc 279

<210> 2266  
 <211> 250  
 <212> DNA  
 <213> Glycine max

<400> 2266

agggatctct gatttcatca ttggaaacta cagtgatggg aatcttggtg catctttatt 60  
 ggcttataaa atgggagtta cacagtgcac aatcgcgcat gcacttgaga agacaaaata 120  
 tccagattca gatttatatt ggaagaaatt tgaggataaa taccactttt catgccaatt 180  
 tactgctgac ctaatagcca tgaataatgc tgattttatc atcaccagta cataccagga 240  
 gattgcggga 250

<210> 2267  
 <211> 52  
 <212> DNA  
 <213> Glycine max

<400> 2267

ggtgttcgga actgagcact cccacattct tcgagttccc tttagaactg ag 52

<210> 2268  
 <211> 236  
 <212> DNA

<213> Glycine max  
 <400> 2268  
 caatttttgta ttggagcttg attttgagcc atttaatgcc acatttcctc gtccaactcg 60  
 ctcagcatcc attggcaatg gtgtccaatt tctcaatcgc cacctttcat ctattatgtt 120  
 tcgcaacaag gattccttgc agcccttgct tgatttcctc cgagctcaca aatacaaggg 180  
 ccatgctctg atgttaaagt atagaatata aaccatttcc aaacttcagc tgcatt 236

<210> 2269  
 <211> 243  
 <212> DNA  
 <213> Glycine max  
 <400> 2269  
 cagattcaga tttatattgg aatctggata ttttgtcttc tcaagtgcac gcgcgattgt 60  
 gcactgtgta actcccattt gatacactca atgaagatgc acttgagaag acaaaatata 120  
 cagattcaga tttatattgg aagaaatttg aggataaata ccacttttca tgccaattta 180  
 ctgctgacct aatagccatg aaaatgcgtg ttttatcatc accagtacat accaggagat 240  
 tgc 243

<210> 2270  
 <211> 86  
 <212> DNA  
 <213> Glycine max  
 <400> 2270  
 ggtgggcagg ttgtttatat actagatcaa gtgcgtgccc ttgaaaatga gatgctcctt 60  
 cggatcaaga aacagggact tgattt 86

<210> 2271  
 <211> 234  
 <212> DNA  
 <213> Glycine max  
 <400> 2271  
 attttataat cactagtaca taccaagaaa ttgcaggaag caagaataat gttggacaat 60  
 atgagagcta cactgccttc actcttccag gactgtatcg tgttgttcat ggcattgatg 120

tttttgatcc caagtttaat atcgtgtctc ctggtgcgga catgtgcata tattttccat 180  
actcggacag agaaaggaga ctaacttctc tacatgggttc aattgaaaaa ctgg 234

<210> 2272  
<211> 121  
<212> DNA  
<213> Glycine max

<400> 2272

cgttcattct gttttccagt tgaagtcttt ccacagccaa tggccactga tcgtttgacc 60  
cgggttcaca gtctccgtga gacgcttgat gaaaccctca ctgccaacag gaacgaaatt 120  
t 121

<210> 2273  
<211> 167  
<212> DNA  
<213> Glycine max

<400> 2273

cgcaacgagt tcattctctt tctctccagg tatgttgctg ggggcaaagg aatactacaa 60  
ccacatgacc tgctgtacga ggtagaaaag cttcttgaag aggatgaagg gatgcagaaa 120  
ctcaaagata gcccttttgt caaagagcgt gaatctcaaa ggaagca 167

<210> 2274  
<211> 221  
<212> DNA  
<213> Glycine max

<400> 2274

gaagaactta accgggtag ttgaatggta tggcaagaac aagagactga gaaatttggt 60  
gaaccttgtc atagtaggag gcttctttgc cccttcaaaa tcaaaagata gggaggaaat 120  
ggcagaaata aaaaatatgc atgacttaat tgataagtac caactcaagg gtcaatttag 180  
atggattgct gctcagacta ataggatcg caatggagag c 221

<210> 2275  
<211> 166  
<212> DNA  
<213> Glycine max



<400> 2275

gtcaagggaa agactgtgat gtggaatgac agaattcaaa acccagatgc agtccaacat 60

gtgctgagga gagctgagga gtatcgaggc acagtgcctc ctgaaacgcg ctactcagag 120

tttgagcacg agggccagga gattggttag aggagagggt ggggtg 166

<210> 2276

<211> 222

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)..(222)

<223> unsure at all n locations

<400> 2276

cgtgtgaaga acatcacagg actcgtggag tggtagcgta agaacgcgaa gtagaggag 60

ttggtgaacc ttgtggttgt tgccggagac aggaggaagg agtcgaagga cttggaagag 120

aaggccgaga tgaagaagat gtacggcctg atcgagacca aagtgttgaa cgggcaactc 180

agantgantt cagtatagag taaccgatct aggaacggag ag 222

<210> 2277

<211> 220

<212> DNA

<213> Glycine max

<400> 2277

ctttgagcag agcaaggctg atccatctca ctgggcaaaa atctcccccg gtggactcaa 60

gggtatcatg aggcatacac atggccaatt tactcggaca ggctcttgac actcactggt 120

gtgtatcgct tctggaagca cgtgaccaat cttgaacgcc gtgcgagcaa acgttacctc 180

gagatgttct atgctctcca gtaacgcaaa ttggctgagt 220

<210> 2278

<211> 169

<212> DNA

<213> Glycine max

<400> 2278

atgggagtta cacagtgcac aatcgcgcat gcacttgaga agacaaaata tccagattca 60

gatttatatt ggaagaaatt tgaggataaa taccactttt catggcaatt tactgctgac 120  
ctaatagccca tgataaatgc tgatttaatc atcaccagtc attaccagg 169

<210> 2279  
<211> 258  
<212> DNA  
<213> Glycine max

<220>  
<221> unsure  
<222> (1)..(258)  
<223> unsure at all n locations

<400> 2279

ggttactttg cccaagataa tgtctgagtc gtancctgac acgtggtggg caggttgtgt 60  
acatcttagg tcaagttcgt gccttgaga atgagatgct caaccgcac aagacacaag 120  
gccttgatat cacgcctcgt attctcatta ttactcgtct tcgccctgat gcagtaggaa 180  
ctacctgtgg ccaacgtcta gagaccgtat atgataactga atattgtgac attctccgag 240  
ttccttgcag aaccgaaa 258

<210> 2280  
<211> 265  
<212> DNA  
<213> Glycine max

<400> 2280

gcagacagat aaaggaatcc tgcacatg gatttctcgc ttgcacattt acccctatct 60  
tgagagggtt actcaggatg caacagccaa gattcttgag ttcatggaag ggaaaccaga 120  
tctagttatt ggaaattaca ctgatggaaa tttggttagca tcactaatgg ctagaaaact 180  
tgggataact cagggaacta tagcacatgc tttagagaag accaagtatg aagactcaga 240  
tgtcaagtgg caagagttgg acccc 265

<210> 2281  
<211> 266  
<212> DNA  
<213> Glycine max

<220>  
<221> unsure

<222> (1)..(266)  
 <223> unsure at all n locations  
  
 <400> 2281  
  
 gggttcaatt tctcaaccga catctgtcat cgttcatgtt tcgtagcaaa gaaagtttgg 60  
 aacctctcct tgcatttctt cgcacacaca gatatgangg tcatgcaatg atgctaaatg 120  
 ancgcattta taacttatcc aagctccagt cttccttggc aaaggcagaa gaattacttt 180  
 ctagactacn acccaatgca ccatattctg actttgaata tgaactacaa ggattgggat 240  
 ttgagagcgg ttgggggtgat acagca 266

<210> 2282  
 <211> 254  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(254)  
 <223> unsure at all n locations

<400> 2282  
  
 cacaacacgg gttgcctcac tttactctgc cgcagatgtt tatgttataa actctcaggg 60  
 gctgggagaa acatttggac gtgtgactat agaagcaatg gcgtttgggc ttccggttct 120  
 tgggacggac gctggaggaa cacaggagat tggtgagcac aatgttacag gtctcttcat 180  
 cctgttggac atccggggaa tcttgttctt gcanagatcc cnggttttta ctcaaaaacc 240  
 ngtgggaaag gaac 254

<210> 2283  
 <211> 152  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(152)  
 <223> unsure at all n locations

<400> 2283  
  
 gctggaagca aggacactgt tggacagtac gaatctcaca cagcatataa tcaccngga 60  
 ctctancgcy ttgtgcatgg tagggatgtc tttgagcgag aattcaacat tggctccct 120

ggagctgata aaaccattta cttgccccca ca 152

<210> 2284  
 <211> 224  
 <212> DNA  
 <213> Glycine max

<400> 2284

gcctggtgtg tgggagtact gacagcgcat gtgcacgctc ttattgtaga ggagttgcaa 60  
 cctgctgagt accttcaatt gaaggaagca cttgctgatg gtagtatcta atggcgactt 120  
 tgtgcttgag taggactttg aagcactcaa tgcagccttc tactgcgtca gtcctaaca 180  
 agtcaactgg agatggtgtg gagtactcat gcgccacctt tctg 224

<210> 2285  
 <211> 273  
 <212> DNA  
 <213> Glycine max

<400> 2285

tcctcttttg cgttcactct ggtctcatag tgacgaactt ctgaagaaat ggcacatcat 60  
 cctgtgacac actctcactc tatccgcgac acgcttgaac ccaagggcaa tggaatcctg 120  
 caacatcacc aagtgggtgc agagtatgaa gaaatccctg aggagagcag aaagaaactc 180  
 caagatggtg tctttggaga agttttgaga tccacacagg aagccatagt gctgccacca 240  
 cttgtagctc ttgctgttcg accaaggcct ggt 273

<210> 2286  
 <211> 238  
 <212> DNA  
 <213> Glycine max

<400> 2286

ggaatatctg cgtgtgaatg tgtacatgct tggtgttgat gagcttcgtc ctgctgagta 60  
 tctgcgtttc aaggaggagc ttgttgaggg aagttcaaac ggcaacttat gtgcttgagt 120  
 tggactttga accgtttaat gcataccttc ctgcgccccaa ctctgaacaa gtccattgga 180  
 aatggcgctg agttcctcaa ccgccacctt tcggccaagc tcttcacac aacatacg 238

<210> 2287  
 <211> 179  
 <212> DNA  
 <213> Glycine max

<400> 2287

tacggctgcg gaagacgaca gaaggggggg ggttgaagat acaagggaga gagacttaca 60  
 tgtgttcctc attctccact gagctgtaaa gaagctcttc aatgtcagag tggaattctg 120  
 ttaacctagg ctcaagtttca gtgtatggga agtatatacc catgtctgca ccgggagag 179

<210> 2288  
 <211> 293  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(293)  
 <223> unsure at all n locations

<400> 2288

gcgtttcaag gaggagcttg ttgaggggaag ttcaaacggc aactttgtgc ttgagttgga 60  
 ctttgaaccg tttaatgcat ccttccctcg cccaactctg aacaagtcca ttggaaatgg 120  
 cgtcgagttc ctcaaccgcc acctttcggc caagctcttc catgacaagg agaaccctca 180  
 gtaactgctt gagttcctca ggcttcacag ttataaggga aagaccatga tgttgaacga 240  
 caaagttcaa agcctggatt ctctccacat angatttgag aaaagcagaa gag 293

<210> 2289  
 <211> 293  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(293)  
 <223> unsure at all n locations

<400> 2289

cttcttcttt tacgttcatt ctgttttcat agtgaggatc ttctnaagaa atggcaaadc 60  
 accctttgac aactctcac tctttccgcg agaggtttga tgaaactctc actgggcaca 120  
 ggaatgaaat tttggccctt ttgtcaaagc ttgaagccaa gggcaaggga atcctgcaac 180

accaccaggt ggttcagag tttgaagaaa tccctgagga gagcagaaag aaactccaag 240  
gtggtgtctt tggagaagtt ttgagatcta cacaggaagc catagtgtg cca 293

<210> 2290  
<211> 267  
<212> DNA  
<213> Glycine max

<400> 2290

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ttgatccaac tctcactggg cacaggaatg aaattttggc ctttttgtca aggcttgaag 120  
ccaagggcaa gggaaatcctg caacaccacc aggtggttgc agagtttgaa gaaatccctg 180  
aggagagcag aaagaaactc caaggtggtg tctttggaga agttttgaga tctacacagg 240  
aagccatagt gctgccacca tttgtgg 267

<210> 2291  
<211> 267  
<212> DNA  
<213> Glycine max

<400> 2291

ccttcctttt ttgcgttcat tctgttttca tagtgacgaa cttctgaaga aatggcaaatt 60  
catcctttga cacactctca ctctttccgc gagagggttg atgaaactct cactggtcac 120  
aggaacgaaa ttttggccct tctgtcaagg cttgaagcca agggcaaggg aatcctgcaa 180  
catcaccaag tggttgcaga gtttgaagaa atccctgagg agagcagaaa gaaactccaa 240  
gatggtgtct ttggagaagt tttgaga 267

<210> 2292  
<211> 268  
<212> DNA  
<213> Glycine max

<400> 2292

gatcttctga agaaatggca aatcaccctt tgacacactc tcactctttc cgcgagaggt 60  
ttgataaaac tctcactggg cacaggaatg aaattttggc ctttttgtca aggcttgaag 120  
ccaagggcaa gggaaatcctg caacaccacc aggtggttgc agagtttgaa gaaatccctg 180

aggagagcag aaagaaactc caaggtggtg tctttggaga agttttgaga tctacacagt 240  
aagccatagt gctgccacca tttgtggc 268

<210> 2293  
<211> 259  
<212> DNA  
<213> Glycine max

<400> 2293

cttcaccctt tccttttttg cgttcattct gttttcatag tgacgaactt ctgaagaaat 60  
ggcaaatacat cctttgacac actctcactc tttccgcgag aggtttgatg aaactctcac 120  
tggtcacagg aacgaaatth tggcccttct gtcaaggctt gaagccaagg gcaagggaat 180  
cctgcaacat caccaagtgg ttgcagagtt tgaagaaatc cctgaggaga gcagaaagaa 240  
actccaagat ggtgtcttt 259

<210> 2294  
<211> 257  
<212> DNA  
<213> Glycine max

<400> 2294

tccttttttg cgttcattct gttttcatag tgacgaactt ctgaagaaat ggcaaatacat 60  
cctttgacac actctcactc tttccgcgag aggtttgatg aaactctcac tggtcacagg 120  
aacgaaatth tggcccttct gtcaaggctt gaagccaagg gcaagggaat cctgcaacat 180  
caccaagtgg ttgcagagtt tgaagaaatc cctgaggaga gcagaaagaa actccaagat 240  
ggtgtctttg gagaagt 257

<210> 2295  
<211> 279  
<212> DNA  
<213> Glycine max

<400> 2295

tagcaccctt tcttctttta cgtacattct gttttcatag tgaggttctt ctgaagaaat 60  
ggcaaatacac gcctttgaca cactctcact cttccgcgga gaggtttgat gtaactctca 120  
ctaggtcaca ggaatgaaat tttggccctt tatgtcaagg cttgaagcca agggcaaggg 180

aattctgcaa caccaccagg tggttgcaga gtttgaagaa atccctgagg agagcagaaa 240  
gaaactccaa ggtggtgtct ttggagaagt tttgagatc 279

<210> 2296  
<211> 243  
<212> DNA  
<213> Glycine max

<400> 2296

caccccttct tcttttacgt tcattctgtt ttcatagtga ggatcttctg aagaaatggc 60  
aaatcacctt ttgacacact ctactcttt ccgcgagagg tttgatgaaa ctctcactgg 120  
tcacaggaat gaaattttgg cccttttgtc aaggcttgaa gccaaagggca agggaatcct 180  
gcaacaccac caggtggttg cagagtttga agaaatccct gaggagagca gaaagaaact 240  
cca 243

<210> 2297  
<211> 244  
<212> DNA  
<213> Glycine max

<400> 2297

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accctttgac acactctcac tctttccgcg agaggtttga tgaaactctc actggtcaca 120  
ggaatgaaat tttggccctt ttgtcaaggc ttgaagccaa gggcaaggga atcctgcaac 180  
accaccaggt ggttgcagag tttgaagaaa tccctgagga gagcagaaag aaactccaag 240  
gtgg 244

<210> 2298  
<211> 281  
<212> DNA  
<213> Glycine max

<220>  
<221> unsure  
<222> (1)..(281)  
<223> unsure at all n locations  
<400> 2298



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 actggtcaca ggaacganat tntggncctt ctgtcaaggc ttgaagccaa gggcaaggga 180  
 tcctgcnaca tcaccaagtg gttgcagagt ttgaagngat ccctgaggag agnaganacn 240  
 natcccagga tgggtgtcttt ggagaagtnt tgagatccac a 281

<210> 2299  
 <211> 268  
 <212> DNA  
 <213> Glycine max

<400> 2299

attttcccct tcaacccttc cttttttgcy ttcattctgt tttcatagt acgtacttct 60  
 gatgaaatgg caaatcatcc tttgacacac tctcactctt tccgcygag gtttgattta 120  
 actctcactg gtcacaggaa cgaaattttg gtccttctgt caaggcttga agccaagggc 180  
 tagggaatcc tgcaacatca ccaagtgggt gcagagtttg aagaaatccc tgaggagagc 240  
 agaaagaaac tccaagatgg tgtctttg 268

<210> 2300  
 <211> 346  
 <212> DNA  
 <213> Glycine max

<400> 2300

ctcattctat tttcatagt acgaacttct gaagaaatgg caaatcatcc tttgacacac 60  
 tctcactctt tccgcygag gtctgatgaa actctcactg gtcacaggaa cgaaattcta 120  
 gcccttctgt caagagctga acccaagggc aagggaatcc tgcaacatca ccaagtgggt 180  
 gcagagtttg acgaaatccc tgaggcgagc agaaagaaac tccaagatga tgtctttcga 240  
 gcaattttga gatccacaca ggaagccata atgctaccac catttgtagc tcttgctgtt 300  
 cgaccatggc ctcgtgtatg ggactatctg cgtgtgaatg tgcaca 346

<210> 2301  
 <211> 245  
 <212> DNA  
 <213> Glycine max

<400> 2301

gaagaaatgg caaatcatcc ttgacacac tctcactctt tccgcgagag gtttgatgaa 60

actctcactg gtcacaggaa cgaaattttg gcccttctgt caaggcttga agccaagggc 120

aagggaatcc tgcaacatca tcaagtgggt gcagagtttg aagaaatccc tgaggagagc 180

agaaagaaac tccaagatgg tgtctttgga gaagttttga gatccacaca ggaagccata 240

gtgct 245

<210> 2302

<211> 233

<212> DNA

<213> Glycine max

<400> 2302

ttcccccttca ccccttcctt ttttgcggtc attctgtttt catagtgacg aacttctgaa 60

gaaatggcaa atcatccttt gacacactct cactctttcc gcgagagggt tgatgaaact 120

ctcactgggtc acaggaacga aattttggcc cttctgtcaa ggcttgaagc caagggcaag 180

ggaatcctgc aacatcacca agtggttgca gagtttgaag aaatccctga gga 233

<210> 2303

<211> 262

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)..(262)

<223> unsure at all n locations

<400> 2303

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cactctttcc gcgagagggt tgatgtanat ctcactgggtc acaggaacga aattttggcc 120

cttctgtcaa ggcttgaagc caagggcaag ggaatcctgc aacatcacca agtggttgca 180

gagtttgaag aaatccctga ggagagcaga aagaaactcc aagatgggtgt ctttggagaa 240

gttttgagat ccacacaaca ta 262

<210> 2304

<211> 260

<212> DNA  
 <213> Glycine max  
 <400> 2304  
 ttcacccctt ccttttttgc gtacattctg ttttcatagg cttctttttt ctcttggtgc 60  
 agtgacgaac ttctgaagat atggcaaata atcctttgac acactctcac tctttccgcg 120  
 agaggtttga tggaactctc actggtcaca ggaacgaaat ttggccctt ctgtcaaggc 180  
 ttgaagccaa tggttaaggga atcctgcaat atcatcaagt ggttgagag tttgaagaac 240  
 atccctaacg agagcagaaa 260

<210> 2305  
 <211> 249  
 <212> DNA  
 <213> Glycine max  
 <400> 2305  
 cccttccttt tttgcgttca ttctgttttc atagtgaaga acttctgaag aaatggcaaa 60  
 tcatcctttg acacactctc actctttccg cgagagggtt gatgaaactc tcaactggtca 120  
 caggaacgaa attttggccc ttctgtcaag gcttgaagcc aagggaagg gaatcctgca 180  
 acatcaccaa gtggttgag agtttgaaga aatccctgag gagagcagaa agaaactcca 240  
 agatggtgt 249

<210> 2306  
 <211> 265  
 <212> DNA  
 <213> Glycine max  
 <400> 2306  
 ttgcaccctg cctgttttgc gtgcattctg ttttcatagt gacgaacttc tggagaaatg 60  
 gcaaatacat ctttgacaca ctctcactct ttccgcgaga ggtttgatga gactctcact 120  
 ggtcacatga acgagattat tgcccttctg tcaaggcttg aagccaagg caagggaatc 180  
 ctgcaacatc accaagtggg tgcagagttt gaagaaatcc ctgaggagag cagaaagaga 240  
 ctccgagatg gtgccttggg gaagt 265

<210> 2307  
 <211> 255

<212> DNA  
 <213> Glycine max  
 <400> 2307  
 ccccttcacc ccttcttctt ttacgttcat tctgttttca tagtgaggat cttctgaaga 60  
 aatggcaa at caccctttga cacactctca ctctttccgc gagaggtttg atgaaactct 120  
 cactggtcac aggaatgaaa ttttggccct tttgtcaagg cttgaagcca agggcaaggg 180  
 aatcctgcaa caccaccagg tggttgcaga gtttgcagaa atccctgagg agagcagaaa 240  
 aaactccaag gtggt 255

<210> 2308  
 <211> 157  
 <212> DNA  
 <213> Glycine max  
 <400> 2308  
 cactctcact ctttccgcga gaggtttgat gtaactctca ctggtcacag gaatgaaatt 60  
 ttggcccttt tgtcaaggct tgaagccaag ggcattgggaa tccttcaaca ccaccagggtg 120  
 gttgcagagt ttgaagaaat ccctgaggag agcagaa 157

<210> 2309  
 <211> 236  
 <212> DNA  
 <213> Glycine max  
 <400> 2309  
 cttcaccctt tccttttttg cgttcattct gttttcatag tgacgaactt ctgaagaaat 60  
 ggcaa atcat cctttgacac actctcactc tttccgcgag aggtttgatg aaactctcac 120  
 tggtcacagg aacgaaat tggcccttct gtcaaggctt gaagccaagg gcaagggaat 180  
 cctgcaacat caccaagtgg ttgcagagtt tgaagaaatc cctgaggaga gcagaa 236

<210> 2310  
 <211> 312  
 <212> DNA  
 <213> Glycine max  
 <220>  
 <221> unsure  
 <222> (1) .. (312)

<223>        unsure at all n locations

<400>        2310

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gaaatggcaa  ctcacccttt  gacacactca  cactccttcc  gcgagaggta  tgatccaact  120
ctcactggtc  acaggaatgc  aatcatggcc  ctaatgtcca  ggcttgaagc  caagggcaag  180
ggcatcctgc  aacaccacca  ggtgggttgc  gagtttgaag  aaatccctga  ggagagcaga  240
aagacactcc  aaagtgggtg  ctttgagaaa  gttttgacct  ctacacatga  agccatcccg  300
ctgccaccat  tt                                     312
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<210>        2311

<211>        147

<212>        DNA

<213>        Glycine max

<400>        2311

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ccccttcacc  cttctctctt  ttacgttcat  tctgttttca  tagtgaggat  cttctgaaga   60
aatggcaaat  caccctttga  cacactctca  ctctttccgc  gagaggtttg  atgaaactct  120
cactggtcac  aggaatgaaa  ttttggc                                     147
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<210>        2312

<211>        241

<212>        DNA

<213>        Glycine max

<400>        2312

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gatatggcaa  atcatccttt  gacacactct  cactctttcc  gcgagagggt  tgatgaaact  120
ctcactggtc  caggaacgaa  attttgcccc  ttctgtcaag  gcttgaagcc  aagggcaagg  180
gaatcctgca  acatcaccaa  gtgggttgca  agtttgagga  atccctgag  gaagccaaaa  240
a                                                     241
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<210>        2313

<211>        206

<212>        DNA

<213>        Glycine max

<400> 2313

cccttcttct tttgcgttca ttctgttttc atagtgatga tcttcttgaa taatggcaaa 60

tcaccctttg acacactctc actctttccg cgagagggtt gatgaaactc tcaactggta 120

caggaatgaa attttgggcc gtttgtcaat gcttgaagcc aacggcatcg gaatcctgta 180

ccactaccag gtggatgaat attttg 206

<210> 2314

<211> 299

<212> DNA

<213> Glycine max

<400> 2314

ccctactctg aaaagcagaa cagacttaca gccctgcatg gttcaattga acagctatta 60

tttgctcctg agcagactga tgaatacatt ggtttattga aagacaagtc aaagcccata 120

atthttctcca tggcaaggct agacagagta aaaaacataa ctggattggg agaaagcttt 180

ggtaagaaca gcaaattgag ggaactggtc aaccttgtca tagtagctgg ttatattgat 240

gtaaagaagt ccagtgcag agaagaaatt gcagaaattg agagatgcat gagctcatg 299

<210> 2315

<211> 271

<212> DNA

<213> Glycine max

<400> 2315

gcagaacagg cttacagccc tgcattggtc aattgaaaag ctgttatttg atcctgagca 60

gactgatgaa tacattgggt cattgaaaga caagtcaaag ccataattt tctccatggc 120

aaggctagac agagtgaaaa acataactgg attggtagaa tgctttggta agaacagcaa 180

attgagggaa ctggtcaacc ttgtttagt agctggttat attgatgtaa agaagtcgag 240

tgacagagca gaaatggcag aaattgagaa g 271

<210> 2316

<211> 235

<212> DNA

<213> Glycine max

<400> 2316

gtttattgaa agacaagtca aagcccataa ttttctccat ggcaaggcta gacagagtaa 60  
aaaacataac tggattggta gaaagctttg gtaagaacag caaattgagg gaactgggtca 120  
accttgtcat agtagctggt tatattgatg taaagaagtc cagtgcacaga gaagaaattg 180  
cagaaattga gaagatgcat gagctcatga aaaagtataa cttagttaggt gattt 235

<210> 2317  
<211> 241  
<212> DNA  
<213> Glycine max

<400> 2317

gcagaacagg cttacagccc tgcattgggtc aattgaaaag ctgttatttg atcctgagca 60  
gactgatgaa tacattgggtt cattgaaaga caagtcaaag cccataattt tctccatggc 120  
aaggctagac agagtgaaaa acataactgg attggtagaa tgctttggta agaacagcaa 180  
attgagggaa ctgggtcaacc ttgtttagt agctgggttat attgatgtaa aaagtcgagt 240  
g 241

<210> 2318  
<211> 261  
<212> DNA  
<213> Glycine max

<400> 2318

agtatgagag ccacgctggt tttactcttc ctgggctcta tagggttgtc catggcattg 60  
atgtttttga tcccaagttc aatattgtct ctctgggagc tgatatgtca atatatttcc 120  
cctactctga aaagcagaac agacttacag ccctgcatgg ttcaattgaa cagctattat 180  
ttgctcctga gcagactgat gaatacattg gtttattgaa agacaagtca aagcccataa 240  
ttttctccat ggcaaggcta g 261

<210> 2319  
<211> 258  
<212> DNA  
<213> Glycine max

<400> 2319

atcaccagta cataccagga gattgctgga acgaaaaata ctgttggtcca gtatgagagc 60

cacgctgggtt ttactcttcc tgggctctat aggggttgctc atggcatgat gtttttgatc 120  
ccaagttcaa tattgggtctc tcctgggagc tgatatgtca atatatttcc cctactctga 180  
aaagcagaac agacttacag ccctgcatgg ttcaattgaa cagctattat ttgctcctga 240  
gcagactgat gaatacat 258

<210> 2320  
<211> 229  
<212> DNA  
<213> Glycine max

<400> 2320

acctaatagc catgaataat gctgatttta tcatcaccag tacataccag gagattgcag 60  
gaacgaaaaa tactgttggc cagtatgaga gccacgctgg ttttactctt cctgggctct 120  
atagggttgt ccatggcatt gatgtttttg atcccaagtt caatattgtc tctcctggag 180  
ctgatatgtc aatatatttc ccctactctg aaaagcagaa cagacttac 229

<210> 2321  
<211> 222  
<212> DNA  
<213> Glycine max

<400> 2321

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ccagtatgag agccacgctg gttttactct tcctgggctc tatagggttg tccatggcat 120  
tgatgttttt gatcccaagt tcaatattgt ctctcctgga gctgatatgt caatatattt 180  
cccctactct gaaaagcaga acagacttac agccctgcat gg 222

<210> 2322  
<211> 252  
<212> DNA  
<213> Glycine max

<400> 2322

cgcacttgag ttttataaat aatgtccgtg attttagtat ttttaccttc tctttctctc 60  
ctcttatoga aagcttaatc acaaaaactaa aatcacggac attatttata aaactcaagt 120  
gcgacaaaact ccaaatgaga aagaaaaagc cggtgatttt agttttgtga ttaagctttc 180



gataagaagt gagaaagaga aggaaaaaaa aagttgcttt tgtttatgta cgtaccatga 240  
 tttggacctt aa 252

<210> 2323  
 <211> 109  
 <212> DNA  
 <213> Glycine max

<400> 2323

cgcacttgag ttttataaat aatgtccgtg attttagttt tgtcgccttc tctttctctc 60  
 ctcttatcga aagcgtaatc acaaaaactaa aatcacggac attatttat 109

<210> 2324  
 <211> 262  
 <212> DNA  
 <213> Glycine max

<400> 2324

cataatttga ttgatgaact tgacaacatc cctggcgatg atcaagcaat agtggatctt 60  
 aaaaatgggc cctttgggtga aatcgtcaag tctgcaaagg aagccatagt tttgcctcct 120  
 tttgtggcaa tagcagttcg tccaagacct ggtgtttggg aatatgtccg tgttaatgtc 180  
 tctgagctca gcgtggagca attaagtgtt tctgaatatc tcagcttcaa ggaagaactt 240  
 gtagatggaa agattaatga ca 262

<210> 2325  
 <211> 272  
 <212> DNA  
 <213> Glycine max

<400> 2325

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 taagaagaac ttaacagaca tataaacata gtgatcggtta tgtctacgca accaaagctt 120  
 ggtcggatcc ccagtatcaa gaccgagttg aagacactct ctctgctcac cgtaacgaac 180  
 tcatttctct cctctccagg tatgtggctc aggggagatg gattttgcaa ccccataatt 240  
 tgattgatga acttgacaac atccctggcg at 272

<210> 2326

<211> 264  
 <212> DNA  
 <213> Glycine max

<400> 2326

ctttaactca tgctttttcc cacttgcaaa ctccaaattc actctctgac agtttttgca 60  
 gccaatgaag aagaacttaa cagacatata aacatagtga tcgtcatgtc tacgcaacca 120  
 aagcttggtc ggatttccag tatcagagac cgagttgaag acactctctc tgctcaccgt 180  
 aacgaactca tttctctcat ctccaggtat gtggctcagg ggaaagggat tttgcaaccc 240  
 cataatttga ttgatgaact tgac 264

<210> 2327  
 <211> 189  
 <212> DNA  
 <213> Glycine max

<400> 2327

gctttttccc acttgcaaac tccaaattca ctctctgaca gtttttgacg ctaattaaga 60  
 agaacttaac agacatataa acatagtgat cgatcatgtc acgcaaccaa agcttggtcg 120  
 gatttccagt atcagagacc gagttgaaga cactctctct gctcaccgta acgaactcat 180  
 ttctctcct 189

<210> 2328  
 <211> 279  
 <212> DNA  
 <213> Glycine max

<400> 2328

gcatgcagcc actgcttgag ttcctcaggc ttcacagtta taagggaag accatgatgt 60  
 tgaatgacaa agttcaaagc ctggattctc tccaacatgt tttgagaaaa gcagaagagt 120  
 atctgatttc agttgctcct gaaacaccct actcggaatt cgagaacaga ttccgggaga 180  
 ttggctctga gagggggtgg ggtgacactg ccgagcgtgt cctcgagatg atccagcttc 240  
 tcttgacact tcttgaggca cctgaccctt gcaccctcg 279

<210> 2329  
 <211> 286  
 <212> DNA

<213> Glycine max  
 <400> 2329

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gagagtatgc agccactgct tgaattcctc aggcttcaca gttataaggg aaagaccatg   60
atgttgaatg acaaagttca aagcctggat tctctccagc atgttttgag aaaagcagaa  120
gagtatctga cttcagttgc tcctgaaaca ccctactcag aattcgagaa caaattccgg  180
gaaattgggtt tggagagggg gtggggtgac atcgccgagc gtgtcctcga gatgatccag  240
cttctcttgg accttcttga ggcacccgac ccttgctacc tcgaga                    286

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<210> 2330  
 <211> 269  
 <212> DNA  
 <213> Glycine max  
 <400> 2330

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agcaactctg aacaagtcca ttggaaatgg cgtcgagttc ctcaaccgcc acctttcggc   60
caagctcttc catgacaagg agagcatgca gccactgctt gagttcctca ggcttcacag  120
ttataaggga aagaccatga tgttgaatga caaagttcaa agcctggatt ctctccaaca  180
tgttttgaga aaagcagaag agtatctgat ttcagttgct cctgaaacac cctactcgga  240
attcgaaaac agattccggg agattggtc                    269

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<210> 2331  
 <211> 267  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(267)  
 <223> unsure at all n locations

<400> 2331

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gcatgcagcc actgcttgag ttcctcaggc ttcacagtta taagggaag accatgatgt   60
tgaatgacaa agttcaaagc ctggattctc tccaacatgt tttgagaaaa gcagaagagt  120
atctgatttc agttgctcct gaaacaccct aactcggaat tcgagaaaca gattccggga  180
gattggctctg gagagggggg ggggtgacat gncgancgtg tcctcgagat gatccagttc  240
tctggacttc ttgangcact gaccttg                    267

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<210> 2332  
 <211> 152  
 <212> DNA  
 <213> Glycine max  
 <400> 2332

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 atgacaaagt tcaaagcctg gattctctcc agcatgtttt gagaaaagca gaagagtatc 120  
 tgacttcagt tgctcctgaa acaccctact ca 152

<210> 2333  
 <211> 271  
 <212> DNA  
 <213> Glycine max  
 <400> 2333

ctctccaaca tgttttgaga aaagcagaag agtatctgat ttcagttgct cctgaaacac 60  
 cctactcgga attcgagaac agattccggg agattggtct ggagaggtgg tggggtgaca 120  
 ctgccgagcg tgcctcgag atgatccagc ttctcctgga ctttcttgat gcacctgacc 180  
 cttgcaccct cgagacattc cttggaagag tccctatggt ctataatggt gttacctttc 240  
 tccccatggt tactttgccc aagataatgt c 271

<210> 2334  
 <211> 265  
 <212> DNA  
 <213> Glycine max  
 <400> 2334

ctccaacatg tgttgagaaa agcagaagag tatctgattt cagttgctcc tgaaacaccc 60  
 tactcggaat tcgagaacag attccgggag attggtctgg agaggggggtg ggggtgacact 120  
 gccgagcgtg tcctcgagat gatccagctt ctcttgagacc ttcttgagge acctgaccct 180  
 tgcaccctcg aatcattcct tggaagagtc cctatggtct tcaatgttgt taccctttct 240  
 ccccatggtt actttgccc agata 265

<210> 2335  
 <211> 243

<212> DNA  
 <213> Glycine max  
 <400> 2335  
 tgctgagatc attgagcatg gtatatacagg attccacatt gatccttatac atcctgatca 60  
 agcttcagag ctattgggtg aatttttcca aaagagcaag gaggaccag accattggaa 120  
 gaaaatatct aatgggtggtc ttcaaagaat ttatgaaagg tacacttgga agatttattc 180  
 tgaaaggctt atgacctttg cgggagttta tagtttctgg aaatacgttt ccaaattaga 240  
 gag 243

<210> 2336  
 <211> 251  
 <212> DNA  
 <213> Glycine max  
 <400> 2336  
 gctacttgcc atgggtggtc ggctgagatc attgagcatg gtatatacagg attccacatt 60  
 gatccttatac accctgatca agcttcacag ctattagttg aatttttcca aaagagcaag 120  
 gaggacccaa gccattggaa gaaaatatct gatgggtggtc ttcaaagaat ttatgaaagg 180  
 tacacgtgga agatttattc cgaaaggctt atgactttgg cgggagttta tagtttctgg 240  
 aaatacgttt c 251

<210> 2337  
 <211> 244  
 <212> DNA  
 <213> Glycine max  
 <400> 2337  
 ggagttaccc agtgcacaat cgogcatgca cttgagaaga caaaatatcc agattcagat 60  
 ttatattgga agaaatttga ggataaatac cacttttcat gccaatctac tgctgaccta 120  
 atagccatga ataatgctga ttttataatc accagtacat accaggagat tgcaggaacg 180  
 aaaatactgt tggccagtat gagagtcaca ctggttttac tcttctggg ctctataggg 240  
 ttgt 244

<210> 2338  
 <211> 241

<212> DNA  
 <213> Glycine max  
 <400> 2338  
 gcacaatcgc gcatgcactt gagaagacaa aatatccaga ttcagattta tattggaaga 60  
 aatttgagga taaataccac ttttcatgcc aatttactgc tgacctata gccatgaata 120  
 atgctgattt tatcatcacc agtacatacc aggagattgc aggaacgaaa aatactgttg 180  
 gccagtatga gagccacgct ggttttactc ttcttgggct ctatagggtt gtccatggca 240  
 t 241

<210> 2339  
 <211> 265  
 <212> DNA  
 <213> Glycine max  
 <400> 2339  
 cttctttgag aagtgaagc ttgacccaac tcaactgggac aagatctcaa aggctggtct 60  
 ccagcgtatt gaagagaagt acacatggca aatttactct cagaggcttc tcaactctac 120  
 cgggtgtctat ggcttctgga agcatgtgtc taaccttgac cgccgtgaga gccgccgcta 180  
 tctcgagatg ttctatgctc tcaagtaccg caaattggct gagtctgtgc ccttctgtgc 240  
 tgagtaaact gaggataaag agttg 265

<210> 2340  
 <211> 258  
 <212> DNA  
 <213> Glycine max  
 <400> 2340  
 ggctggtctc cagcgtattg aagagaagta cacatggcaa atttactctc agaggcttct 60  
 cactctcacc ggtgtctatg gcttctggaa gcatgtgtct aaccttgacc gccgtgagag 120  
 ccgccgctat ctcgagatgt tctatgctct caagtaccgc aaattggctg agtctgtgcc 180  
 ccttctgtct gagtaaactg aggataaaga gttggataaa gaaatggagg aaccggcttt 240  
 ttctttgtac attggagt 258

<210> 2341  
 <211> 276

<212> DNA  
 <213> Glycine max  
 <400> 2341  
 gaagtcttga gatctacaca ggaagccata gttttgccac catgggttgc tctggctgtt 60  
 cgtccaagac ctgggtgtgtg ggagtacctg agagtgaatg tgcacgctct tgttggtgag 120  
 gagttgcaac ctgctgagta cctgcacttc aaggaagaac ttgttgacgg aagttctaata 180  
 ggcaactttg tgcttgagtt ggactttgaa ccattcaatg cagccttccc ccgccaacc 240  
 cttacaagt caattggaaa tgggtgtgcaa ttcctc 276

<210> 2342  
 <211> 284  
 <212> DNA  
 <213> Glycine max  
 <220>  
 <221> unsure  
 <222> (1)..(284)  
 <223> unsure at all n locations  
 <400> 2342

caggaagcna tagttttgcc accatgggtt gctctggctg ttcgtccaag acctgggtgtg 60  
 tgggagtacc tgagagtga tgtgcacgct cttgttggtg aggagtgtgca acctgctgag 120  
 tacctgcact tcaaggaaga anttggtgac ggaagttcta atggcaactt tgtgcttgag 180  
 ttggatcttg aaccattgca atgcagcctt cccccgcnca antncttaac aagtcantgg 240  
 aaatgggtgtg caatcctcaa ccgtcacctt ctgccaaact ctcc 284

<210> 2343  
 <211> 245  
 <212> DNA  
 <213> Glycine max  
 <220>  
 <221> unsure  
 <222> (1)..(245)  
 <223> unsure at all n locations  
 <400> 2343

gaaaaagtat aacttagttg gtgattntcg ttggattgct gcccaaacia atagggcagc 60  
 taatggggag ctgtatcgct acatagcaga cacacaaggt gctttcgttc agcctgcttt 120

ctatgaagct tttggactta cagttgtgga ggccatgaat tgtggactcc ccacttntgc 180  
tacttgccat ggtgggccgg ctgagatcat tgagcatggt atatcaggat tccacattga 240  
tcctt 245

<210> 2344  
<211> 191  
<212> DNA  
<213> Glycine max

<400> 2344

ggtgctttcg ttcagcctgc tttctatgaa gcttttggac ttacagttgt ggaggccatg 60  
aattgtggac tccccacttt tgctacttgc catggtgggc cggtgagat cattgagcat 120  
ggtatatcag gattccacat tgatccttat caccctgac aagcttcaca gctattagtt 180  
gaatttttcc a 191

<210> 2345  
<211> 257  
<212> DNA  
<213> Glycine max

<220>  
<221> unsure  
<222> (1)..(257)  
<223> unsure at all n locations

<400> 2345

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tgtttacatc ttggatcgag ttcgtgcctt ggagaatgag atgctcaacc gcactnagaa 120  
acaaggcctt gatatcacc ctcgtattct cattattact cgtcttctcc ctgatgcagt 180  
aggaactacc tgtggccaac gtctagagag gtatatgata ctgaatattg tgacattctc 240  
cgagttcctt tcagaac 257

<210> 2346  
<211> 218  
<212> DNA  
<213> Glycine max

<400> 2346



gtcttgggat accctgacac tgggtggacag gttgtttaca tcttggatca agttcgtgcc 60  
 ttggagaatg agatgctcaa ccgcatcaag aaacaaggcc ttgatatac ccctcgtatt 120  
 ctcattatca ctcgtcttct ccctgatgca gtaggaacta cctgtggcca acgtctagag 180  
 agggatatatg atactgaata ttgtgacatt ctcagagt 218

<210> 2347  
 <211> 253  
 <212> DNA  
 <213> Glycine max

<400> 2347

ggattccttg cagcccttgc ttgatttcct ccgagctcac aaatacaagg gccatgctct 60  
 gttgttaaata gatagaatac aaaccatttc caaacttcag tctgcattgg ccaaggctga 120  
 ggattatctc tctaagcttg cacatgatac actctattca gagtttgaat atgtattgca 180  
 aggcattgggt tttgagagag gttgggggtgc tactgctgaa cgggtattgg agatgatgca 240  
 tctgctattg gat 253

<210> 2348  
 <211> 311  
 <212> DNA  
 <213> Glycine max

<400> 2348

tcgaacgaga tgaagaagat gtacggcctg atcgagacct acaagttgaa cggccaattc 60  
 agatggattt catcgcatg gaaccgtgtg aggactggag agctctaccg cgtgatctgc 120  
 gacaccaggg gtgctttcgt gcagcctgct gtatacgagg cttttggttt gacagtgggt 180  
 gaggccatga cttgcggctt gccaacattc gccacatgca atgggtgggtcc tgctgagatc 240  
 attgtgcacg gcaagtctgg cttccacatt gacccttacc atgggtgaccg tgctgctgat 300  
 ctcccttggtg a 311

<210> 2349  
 <211> 342  
 <212> DNA  
 <213> Glycine max

<400> 2349

tgagagctttc	gtgcagccgg	ctatatacga	ggcttttcgt	ttgacagtgg	ttgaggccat	60
gacttggtggg	ttgccaacat	tcgccacatg	caatgggtgg	cctgctgaga	tcattgtgca	120
tggcaagtct	ggcttccaca	ttgaccctta	ccatgggtgac	cgtgctgctg	atctccttgt	180
tgacttcttt	gagaagtgca	agcttgaccc	aaccactgg	gaaacaatct	caaaggctgg	240
tctccagcgt	attgaagaga	agtacacatg	gcaaatttac	tcacagaggc	ttctcactct	300
cactgggtg	tatggcttct	ggaagcatgt	gtctaacctt	ga		342

<210> 2350  
 <211> 305  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(305)  
 <223> unsure at all n locations

<400> 2350

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ccctactcag	aatttgagcn	caagttccag	gagattngtt	tggngagagg	gtgggggtgac	120
aacgcggagg	tgtgccttga	gtcaattcaa	cttctcttgg	atcttcttga	ggcccctgac	180
ccgtgcaccc	ttgagacttt	ccttggaaga	atccctatgg	tgttcaatgt	tgttattcnt	240
tctcccatg	gttactttgc	ccaagataat	gtcttnggat	accctgacac	tggtggccag	300
gttgt						305

<210> 2351  
 <211> 277  
 <212> DNA  
 <213> Glycine max

<400> 2351

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atgggtattga	tgtctttgat	ccaaaattca	acattgtctc	ccctggagct	gatcaaacca	120
tttacttccc	ccacactgaa	accagccgta	ggttgacatc	cttcaccct	gaaatcgaag	180
aactccttta	cagctcagt	gagaatgaag	aacacatatg	tgtgctgaag	gaccgcagca	240
agccaattat	cttcaccatg	gcaagggttg	atcgagt			277

<210> 2352  
 <211> 278  
 <212> DNA  
 <213> Glycine max  
 <400> 2352  
 caatgttggt attctttctc cccatgggta ccctgcccac gataatgtct tgggataccc 60  
 tgacactggg ggccagggtg tttacatctt ggatcaagtt cgtgctttgg agaatagat 120  
 gctccatcgc attaaagcaac aaggattgga cattgttctt cgtattctca ttatcaccgc 180  
 tcttctcccc gatgcagtag gaactacttg tggccaacgt cttgagaagg tgttcggaac 240  
 tgagcactcc cacattcttc gagttccctt tagaactg 278

<210> 2353  
 <211> 273  
 <212> DNA  
 <213> Glycine max  
 <400> 2353  
 gccatgaacc acacagattt cattatcacc agtaccttcc aggagattgc tggaagcaag 60  
 gacactggtg gacagtacga atctcacaca gccttcaccc ttctgggact ctaccgcgtt 120  
 gtgcatggta ttgatgtctt tgatccaaaa ttcaacattg tctcccctgg agctgatcaa 180  
 accatttact tccccacac tgaaaccagc cgtagggtga catccttcca ccctgaaatc 240  
 gaagaactcc tttacagctc agtggagaat gaa 273

<210> 2354  
 <211> 283  
 <212> DNA  
 <213> Glycine max  
 <400> 2354  
 caaattcaac attgtctccc ctggagctga tcaaaccatt tacttcccc acactgaaac 60  
 cagccgtagg ttgacatcct tccaccctga aatcgaagaa ctctttaca gctcagtgga 120  
 gaatgaagaa cacatatgtg tgctgaagga ccgcagcaag ccaattatct tcaccatggc 180  
 aaggttggat cgagtgaaga acatcacagg acttgtggag tggtaggta agaacgcgaa 240  
 ctgagggagc tgggtgaacct tgtggttggt gctggagaca gga 283

<210> 2355  
 <211> 271  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(271)  
 <223> unsure at all n locations

<400> 2355

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 caatgggtgg cctgctgaga tcattgtgca cggcaagtct ggcttcacaca ttgaccctta 120  
 ccatgggtgac cgtgctgctg atctccttgt tgacttcttt gagaagtgca agcttgaccc 180  
 aactcactgg gacaagctct caaaggctgg tctccagcgt attgaagaga agtacacatg 240  
 gcaaatttac tctcagaggc ttctcactct c 271

<210> 2356  
 <211> 273  
 <212> DNA  
 <213> Glycine max

<400> 2356

ctgaaatcga agaactcctt tacagctcag tggagaatga agaacacata tgtgtgctga 60  
 aggaccgcag caagccaatt atcttcacca tggcaagggt ggatcgagtg aagaacatca 120  
 caggacttgt ggagtggtag ggtaagaacg cgaactgagg gagctggtag accttgtggg 180  
 tgttgctgga gacaggagga aggagtcaaa ggacttgga gaaaaggccg agatgaagaa 240  
 gatgtacggc ctgatcgaga cctacaagtt gaa 273

<210> 2357  
 <211> 278  
 <212> DNA  
 <213> Glycine max

<400> 2357

atcaaaccat ttacttcccc cacactgaaa ccagccgtag gttgacatcc ttccaccctg 60  
 aaatcgaaga actcctttac agctcagtgg agaatagaaga acacatatgt gtgctgaagg 120

accgcagcaa gccattatc ttcgccatgg caagggttga tcgagtgaag aacatcacag 180  
gacttggtga gtggtacggt aagaacgcga agctgagggg gctggtgaac cttgtggttg 240  
ttgctggaga caggaggaag gagtcaaagg acttgga 278

<210> 2358  
<211> 325  
<212> DNA  
<213> Glycine max  
<400> 2358

aggagtcgaa ggacttgga gagaaggccg agatgaagaa gatgtatggc ctcatcgaga 60  
cctacaagtt gaacggccaa ttcagatgga taccctctca gatgaaccgt gtgaggaacg 120  
gagagctcta ccgtgtcatc tgtgacacaa ggggtgcctt tgtgcagcct gcagtttatg 180  
aggccttttg gttgactgtg gttgaggcca tgacttgttg gttgccaacg tttgccacat 240  
gcaatgggtg tcctgctgag atcattgtgc atggaaaatc tggttaccac attgatcctt 300  
accatgggtg ccatgctgct gagat 325

<210> 2359  
<211> 274  
<212> DNA  
<213> Glycine max  
<400> 2359

ggccatactt ggaaacttac actgaggatg ttgctcatga gcttgccaaa gagttgcaag 60  
gcaagccaga tctgattgtc ggaaactaca gtgatggaaa cattgttgcc tctttgttg 120  
cacataaatt aggagtcact caggtaccat tgctcatgca cttgagaaga ccaaataccc 180  
cgaatccgac atttactgga aaaaattgga agagagatac cacttctctt gccaatcac 240  
agctgatcta tttgccatga accacacaga tttc 274

<210> 2360  
<211> 276  
<212> DNA  
<213> Glycine max  
<400> 2360

gccaatcac atggatttca tcgcagatga accgtgtgag gaatggagag ctctaccg 60

tgatctgcga caccaggggt gctttcgtgc agcctgctgt atacgaggct tttggtttga 120  
 cagtgggttga ggccatgact tgcggcttgc caacattcgc cacatgcaat ggtggtcctg 180  
 ctgagatcat tgtgcacggc aagtctggct tccacattga ccctaccatg gtgaccgtgc 240  
 tgctgatctc ctgttgactt ctttgagaag tgcaag 276

<210> 2361  
 <211> 267  
 <212> DNA  
 <213> Glycine max

<400> 2361

ccgatgcagt aggaactact tgtggccaac gtcttgagaa ggtgttcgga actgagcact 60  
 cccacattct tcgagttcgc tttagaactg agaaggggaat tgttcgcaag tggatctcaa 120  
 gattcgaagt ctggccctac ttggaaactt aactgagga tgttgccac gagcttgcca 180  
 aagagttgca aggcaagcca gatctgattg ttggaaacta cagtgatgga aacattgtcg 240  
 cttctttgtt ggcacataaa ttaggtg 267

<210> 2362  
 <211> 263  
 <212> DNA  
 <213> Glycine max

<400> 2362

ccaagatgta aacaacctgg atcaagtctg tgctttggag aatgagatgc tccatcgcat 60  
 taagcaacaa ggattggaca ttgttcctcg tattctcatt atcacccgtc ttctccccga 120  
 tgcagtagga actacttgtg gccaacgtct tgagaagggtg ttcggaactg agcactccca 180  
 cattcttoga gttcccttta gaactgagaa ggggaattgtt cgcaagtgga tctcaagatt 240  
 cgaagtctgg ccctacttgg aaa 263

<210> 2363  
 <211> 265  
 <212> DNA  
 <213> Glycine max

<400> 2363

actcagtgta ccattgctca cgcacttgag aagaccaa at acccgaatc cgacatttac 60

tggaaaaaat tggagagag ataccacttc tcttgccaat tcacagctga tctatttgcc 120  
 atgaaccaca cagatttcat tacaagcagt accttccagg agattgctgg aagcaaggac 180  
 actggttgac agtacgaatc tcacacagcc ttcaccttc ctggactcta ccgcgttggtg 240  
 catggtattg atgtctttga tccaa 265

<210> 2364  
 <211> 328  
 <212> DNA  
 <213> Glycine max

<400> 2364

gctcaaccgc atcaagaaac aaggccttga tatcaccctt cgtattctca ttattactcg 60  
 tcttctccct gatgcagtag gaactacctg tggccaacgt ctagagaggg tatatgatac 120  
 tgaatattgt gacattctcc gagttccttt cagaaccgaa aagggaattg ttgcgaaatg 180  
 gatctcaaga ttggaagtct ggccatacct agagacttac actgaggatg ttgcccttga 240  
 acttgccaag gagttgcaag ccaagccaga tctgatcggt ggaaactaca gtgatggaaa 300  
 cattgttgcc tctttgttag cacataaa 328

<210> 2365  
 <211> 340  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(340)  
 <223> unsure at all n locations

<400> 2365

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 ctgagatcat tgtgcacggc nagtctggct tccacattga cccttaccat ggtgaccgtg 120  
 ctgctgatct cctgttgact tctttgagaa gtgcaagctt gacccaactc actgggacaa 180  
 gatctcaaag gctggtctcc agcgtattga agagaagtac acatggcaaa tttactctca 240  
 gaggttctca tctcaacggt gtctatgggt ctggaagcat gtgtctaact tgaacgcgtg 300  
 agancgcgta tctgagagtc tagtctcagt acgnaatggt 340

<210> 2366  
 <211> 273  
 <212> DNA  
 <213> Glycine max  
  
 <400> 2366  
  
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 ggaaacattg ttgcctcttt gttggctcat aaattaggag tcactcagtg taccattgct 120  
 catgcacttg agaagaccaa ataccccgaa tccgacattt actggaaaaa attggaagag 180  
 agataccact tctcttgcca attcacagct gatctatttg ccatgaacca cacagatttc 240  
 attatcacca gtaccttcca ggagattgct gga 273

<210> 2367  
 <211> 262  
 <212> DNA  
 <213> Glycine max  
  
 <400> 2367  
  
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 aggaggaagg agtcaaagga cttggaagaa aaggccgaga tgaagaagat gtacggcctg 120  
 atcgagacct acaagttgaa cggccaattc agatggattt catcgagat gaaccgtgtg 180  
 aggaatggag agctctaccg cgtgatctgc gacaccaggg gtgctttcgt gcagcctgct 240  
 gtatacgagg ctttttggtt ga 262

<210> 2368  
 <211> 263  
 <212> DNA  
 <213> Glycine max  
  
 <400> 2368  
  
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 caggaggaag gagtcaaagg acttggaaga aaaggccgag atgaagaaga tgtacggcct 120  
 gatcgagacc tacaagttga acggccaatt cagatggatt tcatcgaga tgaaccgtgt 180  
 gaggaatgga gagctctacc gcgtgatctg cgacaccagg ggtgctttcg tgcagcctgc 240  
 tgtatacgag gcttttggtt tga 263



<210> 2369  
 <211> 255  
 <212> DNA  
 <213> Glycine max

<400> 2369

ctggaaaata ttggaagaga gataccactt ctcttgccaa ttcacagctg atctatttgc 60  
 catgaaccac acagatttca ttatcaccag taccttccag gagattgctg gaagcaagga 120  
 cactgttgga cagtacgaat ctcacacagc cttcaccctt cctggactct accgcgttgt 180  
 gcatggtatt gatgtctttg atccaaaatt caacattgtc tcccctggag ctgatcaaac 240  
 catttacttc cccca 255

<210> 2370  
 <211> 251  
 <212> DNA  
 <213> Glycine max

<400> 2370

cttgaagaa aaggccgaga tgaagaagat gtacggcctg atcgagacct acaagttgaa 60  
 cggccaattc agatggattt catcgagat gaaccgtgtg aggaatggag agctctaccg 120  
 cgtgatctgc gacaccaggg gtgctttcgt gcagcctgct gtatacgagg ctttttggtt 180  
 gacagtgggt gaggccatga cttgcggctt gccaacattc gccacatgca atggtggtcc 240  
 tgctgagatc a 251

<210> 2371  
 <211> 262  
 <212> DNA  
 <213> Glycine max

<400> 2371

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 gtggatctca agattcgaag tctggcccta cttggaaact tacactgagg atgttgccca 180  
 cgagcttgcc aaagagttga aggcaagcca gatctgattg ttggaaacta cagtgatgga 240  
 aacattgtcg cttcttttgtt gg 262

<210> 2372  
 <211> 277  
 <212> DNA  
 <213> Glycine max

<400> 2372

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cttgaggccc ctgacccttg cacccttgag actttccttg gaagaattcc tatggtcttc 60
aatgttgtca ttctttctcc ccatgggttac ttgcccgaag ataatgtctt gggccaccct 120
gacactgggtg gccaggttgt ttacatcttg gatcaagttc gtgctttgga gaacgagatg 180
ctccatcgca ttaagcaaca aggattggac attgtacctc gtattctcat tatcaccgtc 240
ttctccccga tgcaatcgga actacttggtg gccaacg 277

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<210> 2373  
 <211> 255  
 <212> DNA  
 <213> Glycine max

<400> 2373

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tggaatggag agctctaccg cgtgatctgc gacaccaggg gtgctttcgt gcagcctgct 60
gtatacgagg cttttgggtt gacagtgggt gaggccatga cttgcggctt gccaacattc 120
gccacatgca atggtgggtc tgctgagatc attgtgcacg gcaagtctgg cctccacatt 180
gacgcttacc atggtgaccg tgctgctgat ctccttggtg acttctttga gaagtgcacg 240
cttgacccaa ctcac 255

```

<210> 2374  
 <211> 269  
 <212> DNA  
 <213> Glycine max

<400> 2374

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gaggcttttg gtttgacagt gggtgaggcc atgacttggt gggtgccaac attcgccaca 120
tgcaatgggtg gtcctgctga gatcattgtg catggcaagt ctggcttcca cattgaccct 180
taccatgggtg accgtgctgc tgatctcctt gttgacttct ttgagaagtg caagcttgac 240
ccaaccact gggaaacaat ctcaaaggc 269

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<210> 2375  
 <211> 258  
 <212> DNA  
 <213> Glycine max  
  
 <400> 2375  
  
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 gccctgacc cttgcaccct tgagactttc cttggaagaa ttcctatggt cttcaatggt 120  
 gtcattcttt ctcccatgg ttactttgcc caagataatg tcttgggata ccctgacact 180  
 ggtggccagg ttgtttacat cttggatcaa gtctgtgctt tggagaacga gatgctccat 240  
 cgcattaagc aacaagga 258

<210> 2376  
 <211> 275  
 <212> DNA  
 <213> Glycine max  
  
 <400> 2376  
  
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 tccaccctga aatcgaagca ctctttaca gctcagtga gaatgaagaa cacatatgtg 120  
 tgctgaagga ccgcagcaag ccaattatct tcaccatggc aagggtggat cgagtgaaga 180  
 acatcacagg acttgtggag tggtaggta agaacgcga ctgagggagc tggatgaacct 240  
 tgtggttggt gctggagaca ggaggaagga gtcaa 275

<210> 2377  
 <211> 255  
 <212> DNA  
 <213> Glycine max  
  
 <400> 2377  
  
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 ggaccgcagc aagccaatta tcttcaccat ggcaagggtg gatcgagtga agaacatcac 120  
 aggacttggt gagtggtacg gtaagaacgc gaactcgagg gagctggtga accttggtgt 180  
 tgttgctgga gacaggagga aggagtcaaa ggacttgga gaaaaggccg agatgaagaa 240  
 gatgtacggc ctgat 255

<210> 2378  
 <211> 289  
 <212> DNA  
 <213> Glycine max  
  
 <400> 2378  
  
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 tacggcctga tcgctcccta caagttgaac gggcaattca gatggatttc atctcagatg 120  
 aaccgtgtga ggaacggaga gctgtaccgt gtgatctgcg acaccaaggg agcttttcgtg 180  
 cagccggcta tatacagggc ttttggtttg acagtggttg aggccatgac ttgtgggttg 240  
 ccaacattcg ccacatgcaa tggtggtcct gctgagatca ttgtgcatg 289

<210> 2379  
 <211> 256  
 <212> DNA  
 <213> Glycine max  
  
 <400> 2379  
  
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 ttgacagtgg ttgaggccat gacttgcggc ttgccaacat tcgccacatg caatgggtgg 120  
 cctgctgaga tcattgtgca cggcaagtct ggcttccaca ttgaccctta ccatgggtgac 180  
 cgtgctgctg atctccttgt tgacttcttt ggaagtgcaa gcttgacca actcactggg 240  
 acaagatctc aaaggc 256

<210> 2380  
 <211> 273  
 <212> DNA  
 <213> Glycine max  
  
 <400> 2380  
  
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 aagggaattg ttcgtcagtg gatctcaaga ttcgaagtct ggccatactt ggaaacttac 120  
 actgaggatg ttgctcatga gcttgccaaa gagttgcaag gcaagccaga tctgattgtc 180  
 ggaaactaca gtgatggaaa cattgttgcc tctttgttgg cacataaatt aggagtact 240  
 cagtgtacca ttgctcatgc acttgagaag acc 273

<210> 2381  
 <211> 254  
 <212> DNA  
 <213> Glycine max  
  
 <400> 2381  
  
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 tggaaacatt gttgcctctt tgttggcaca taaattagga gtcactcagt gtaccattgc 120  
 tcatgcactt gagaagacca aataccccga atccgacatt tactggaaaa aattggaaga 180  
 gagataccac ttctcttgcc aattcacagc tgatctattt gccatgaacc acacagattt 240  
 cattatcacc agta 254

<210> 2382  
 <211> 245  
 <212> DNA  
 <213> Glycine max  
  
 <400> 2382  
  
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 cctgctgaga tcattgtgca cggcaagtct ggcttccaca ttgaccctta ccatggtgac 120  
 cgtgctgctg atctccttgt tgacttcttt gagaagtgca agcttgaccc aaccactgg 180  
 gacaagagct caaaggctgg tctccagcgt attgaagaga agtacacatg gcaaatttac 240  
 tctca 245

<210> 2383  
 <211> 253  
 <212> DNA  
 <213> Glycine max  
  
 <400> 2383  
  
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 atacgaggct tttggtttga cagtggttga cgccatgact tgcggcttgc caacattcgc 120  
 cacatgcaat ggtggtcctg ctgagatcat tgtgcacggc aagtctggct tccacattga 180  
 cccttaccat ggtgaccgtg ctgctgatct ccttgttgac ttctttgaga agtgcaagct 240  
 tgaccecaact cac 253

<210> 2384  
 <211> 274  
 <212> DNA  
 <213> Glycine max  
  
 <400> 2384  
  
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 aattaggtgt cactcagtgt accattgctc acgcacttga gaagaccaa taccgccaat 120  
 ccgacattta ctggaaaaa ttggaagaga gataccactt ctcttgccaa ttcacagctg 180  
 atctatttgc catgaaccac acagatttca ttatcaccag taccttccag ggattgctgg 240  
 aagcaaggac actgttggaac agtacgaatc tcac 274

<210> 2385  
 <211> 254  
 <212> DNA  
 <213> Glycine max  
  
 <400> 2385  
  
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 gcagcaagcc aattatcttc accatggcaa ggttggaatc agtgaagaac atcacaggac 120  
 ttgtggagtgt gtacggtaag aacgcgaact gagggagctg gtgaaccttg tgggtgttgc 180  
 tggagacagg aggaaggagt caaaggactt ggaagaaaag gccgagatga agaagatgta 240  
 cggcctgatc .gaga 254

<210> 2386  
 <211> 249  
 <212> DNA  
 <213> Glycine max  
  
 <400> 2386  
  
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 gaaagctgag gagtatctgg gcacagtgcc tcctgaaact ccctactcag aatttgagca 120  
 caagttccag gagattggtt tggagagagg gtggggtgac aacgcagagc gtgttcttga 180  
 gtcaattcaa cttctcttgg atcttcttga ggcccctgac ccttgcaccc ttgagacttt 240  
 ccttggaag 249

<210> 2387  
 <211> 253  
 <212> DNA  
 <213> Glycine max  
  
 <400> 2387  
  
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 ccagccgtag gttgacatcc ttccaccctg aaatcgaaga actcctttac agctcagtgg 120  
 agaatgaaga acacatatgt gtgctgaagg accgcagcaa gccaatatc ttcaccatgg 180  
 caaggttgga tcgagtgaag aacatcacag gacttgtgga gtggtacggt aagaacgcga 240  
 actgagggag ctg 253

<210> 2388  
 <211> 242  
 <212> DNA  
 <213> Glycine max  
  
 <400> 2388  
  
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 tgaggatggt gccacgagc ttgcaaaga gttgcaaggc aagccagatc tgattgttgg 120  
 aaactacagt gatggaaaca ttgtcgcttc tttgttggca cataaattag gtgtcactca 180  
 gtgtaccatt gctcacgcac ttgagaagac caaatacccc gaatccgaca tttactggaa 240  
 aa 242

<210> 2389  
 <211> 234  
 <212> DNA  
 <213> Glycine max  
  
 <400> 2389  
  
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 tttgttggca cataaattag gtgtcactca gtgtaccatt gctcacgcac ttgagaagac 120  
 caaatacccc gaatccgaca tttactggaa aaaattggaa gagagatacc acttctcttg 180  
 ccaattcaca gctgatctat ttgccatgaa ccacacagat ttcattatca ccag 234

<210> 2390  
 <211> 239

<212> DNA  
 <213> Glycine max  
 <400> 2390  
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 ctgaaatcga agaactcctt tacagctcag tggagaatga agaacacata tgtgtgctga 180  
 aggaccgcag caagccaatt atcttcacca tggcaagggt ggatcgagtg aagaacatc 239

<210> 2391  
 <211> 267  
 <212> DNA  
 <213> Glycine max  
 <400> 2391  
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 atctcaagat tcgaagtctg gccatacttg gaaacttaca ctgaggatgt tgctcatgag 180  
 cttgccaaag agttgcaagg caagccagat ctgattgtcg gaaactacag tgatggaaac 240  
 attgatgcct ctttgttggc acataaa 267

<210> 2392  
 <211> 270  
 <212> DNA  
 <213> Glycine max  
 <400> 2392  
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 catccttcca ccctgaaatc gaagaactcc tttacagctc agtggagaat gaagaacaca 180  
 tatgtgtgct gaaggaccgc agcaagccaa ttatcttcac catggcaagg ttggaccgag 240  
 tgaagaacat cacaggactt gtggagtgg 270

<210> 2393  
 <211> 284  
 <212> DNA  
 <213> Glycine max



<400> 2393

acaggaggaa ggagtgcaag gacttggaag agaaggccga gatgaagaag atgtatggcc 60

tcacgcgagac ctacaagttg aacggccaat tcagatggat ctctctcag atgaaccgtg 120

tgaggaacgg agagctctac cgtgtcatct gtgacacaag gggtgccctt gtgcagcctg 180

cagtttatga ggcctttggg ttgactgtgg ttgaggccat gacttgtggg ttaccaacat 240

ttgccacatg caatggtggt cctgctgaga tcattgtgca tgga 284

<210> 2394

<211> 247

<212> DNA

<213> Glycine max

<400> 2394

cgcgttggtgc atggtattga tgtctttgat ccaaaattca acattgtctc ccctggagct 60

gatcaaacca ttacttccc ccacactgaa accagccgta ggttgacatc cttccaccct 120

gaaatcgaag aactccttta cactcagtgg agaatgaaga acacatatgt gtgctgaagg 180

accgcagcaa gcccaattatc ttcacatgga caagggtgga tcgagtgaag aacatcacag 240

gacttgt 247

<210> 2395

<211> 247

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)..(247)

<223> unsure at all n locations

<400> 2395

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tcattatcan cagtaccttc caggagattg ctggaagcaa ggacactggt ggacagtacg 120

aatctcacac agcctcacc ttcctggact ctaccgcgtt gtgcatggta ttgatgtctt 180

tgatccaaaa ttcaacattg tctcccctgg agctgatcaa accatttact tccccacac 240

tgaaacc 247

<210> 2396  
 <211> 279  
 <212> DNA  
 <213> Glycine max  
  
 <400> 2396  
  
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 aacacatatg cgtgctgaag gaccgcagca agccgattat cttcaccatg gcaagggttg 120  
 accgtgtgaa gaacatcaca gactcgtgga gtggtacggt aagaacgcga actgaaggga 180  
 gttggtgaac cttgtggttg ttgccggaga caggaggaag gagtcgaagg acttggaaga 240  
 gaaggctgag atgaagaaga tgtacggcct gatcgagac 279

<210> 2397  
 <211> 260  
 <212> DNA  
 <213> Glycine max  
  
 <400> 2397  
  
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 gctttagaac tgagaaggga attgttcgca agtggatctc aagattcgaa gtctggccct 120  
 acttggaac ttacactgag gatgttgccc acgagcttgc caaagagttg caaggcaagc 180  
 cagatctgat tgttggaac tacagtgatg gaaacattgt cgcttctttg ttggcacata 240  
 aattaggtgt cactcagtgt 260

<210> 2398  
 <211> 210  
 <212> DNA  
 <213> Glycine max  
  
 <400> 2398  
  
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 actcagtgta ccattgctca tgcacttgag aagaccaa at acccgaatc cgacatttac 120  
 tggaaaaaat tggaagagag ataccacttc tcttgccaat tcacagctga tctatttgcc 180  
 atgaaccaca cagatttcat tatcaccagt 210

<210> 2399

<211> 243  
 <212> DNA  
 <213> Glycine max  
  
 <400> 2399  
  
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 ggaaacattg ttgcctcttt gttggcacat aaattaggag tcactcagtg taccattgct 120  
 catgcacttg agaagaccaa ataccccgaa tccgacattt actggaaaaa attggaagag 180  
 agataccact tctcttgcca attcacagct gatctatttg ccatgaacca cacagatttc 240  
 att 243

<210> 2400  
 <211> 257  
 <212> DNA  
 <213> Glycine max  
  
 <400> 2400  
  
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 cggaaccgag cactcccaca ttcttcgagt tccctttaga actgagaagg gaattgttcg 180  
 tcagtggatc tcaagattcg aagtctggcc atacttgga acttacactg aggatgttgc 240  
 tcatgagctt gccaaag 257

<210> 2401  
 <211> 286  
 <212> DNA  
 <213> Glycine max  
  
 <400> 2401  
  
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 aaacctcgtg gtggtggccg gagacaggag gaaggagtcc aaggacttgg aagagaaggc 180  
 cgagatgaag aagatgtatg gcctcatcga gacctacaag ttgaacggcc aattcagatg 240  
 gatctcctct cagatgaacc gtgtgaggaa cggagagctc taccgt 286

<210> 2402

<211> 275  
 <212> DNA  
 <213> Glycine max  
  
 <220>  
 <221> unsure  
 <222> (1)..(275)  
 <223> unsure at all n locations  
  
 <400> 2402  
  
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 gtgaagaaca tcacaggact cgtggagtgg tacggtaaga acgcgaactg agggagttgg 180  
 tgaaccttgt ggttgttgcc ggagacagga ggaaggagtc gaaggacttg gaagagaagg 240  
 ctgagatgaa gaagatgtac ggcctgatcg agacc 275  
  
 <210> 2403  
 <211> 249  
 <212> DNA  
 <213> Glycine max  
  
 <400> 2403  
  
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 tctcagatga accgtgtgag gaacggagag ctgtaccgtg tgatctgcga caccaagggga 180  
 gctttcgtgc agccggctat atacgaggct tttggtttga cagtggttga ggccatgact 240  
 tgtggggttg 249  
  
 <210> 2404  
 <211> 271  
 <212> DNA  
 <213> Glycine max  
  
 <400> 2404  
  
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 catgagcttg ccaaagagtt gcaaggcaag ccagatctga ttgtcggaaa ctacagtgat 180  
 ggaaacattg ttgcctcttt gttggcacat aaattaggag tcactcagtg taccattgct 240

catgcacttg agaagaccaa ataccccgaa t 271

<210> 2405  
 <211> 251  
 <212> DNA  
 <213> Glycine max

<400> 2405

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 cgtgcttttg agaacgagat gctccatcgc attaagcaac aaggattgga cattgtacct 120  
 cgtattctca ttatcaccog tcttctcccc gatgcaatcg gtactacttg tggccaacgt 180  
 cttgagaagg tgttcggaac cgagcactcc cacattcttc gagttctctt tagaactgag 240  
 aagggaattg t 251

<210> 2406  
 <211> 247  
 <212> DNA  
 <213> Glycine max

<400> 2406

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 aggccccctga cccttgaccc cttgagactt tccttggaag aattcctatg gtcttcaatg 120  
 ttgtcattct ttctcccat ggttactttg cccaagataa tgtcttggga taccctgaca 180  
 ctggtggcca ggttgtttac atcttggatc aagttcgtgc tttggagaac gagatgctcc 240  
 atcgcat 247

<210> 2407  
 <211> 282  
 <212> DNA  
 <213> Glycine max

<400> 2407

tgagaggggg tggggtgaca ctgccgagcg tgtcctcgag atgatccagc ttctcctgga 60  
 ccttcttgag gcacctgacc cttgcaccct cgagacattc cttggaagag tccctatggt 120  
 cttcaatggt gttatccttt ctcccatgg ttactttgcc caagataatg tcttgggata 180  
 ccctgacact ggtggacagg ttgtttacat cttggatcaa gttcgtgcct tggagaatga 240

gatgctcaac cgcatcaaga aacaaggcct tgatatcacc cc

282

<210> 2408  
<211> 309  
<212> DNA  
<213> Glycine max

<220>  
<221> unsure  
<222> (1)..(309)  
<223> unsure at all n locations

<400> 2408

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ctgacattta ctggaaanan tttgaagaga natatcattt ctcatgccaa tttactgctg 180  
atctttttgc aatgaaccac acagacttta tcatcaccag cnccttccaa gagattgctg 240  
gaagcaagga cactgtngga cagtatgaga gtcacactgc cttcaccctt ccangacttt 300  
accgtgttg 309

<210> 2409  
<211> 251  
<212> DNA  
<213> Glycine max

<400> 2409

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cccctggagc tgatcaaacc atttacttcc cccccaccga aactagccgt aggttgacct 120  
ccttccaccc cgaaatcgaa gaacttcttt acagctctgt ggagaatgaa gaacacatat 180  
gcgtgctgaa ggaccgcagc aagccgatta tcttcaccat ggcaagggtg gaccgtgtga 240  
agaacatcac a 251

<210> 2410  
<211> 248  
<212> DNA  
<213> Glycine max

<400> 2410

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 acagtatgag tctcacacag cctttaccct tcttggactc taccgtgttg tgcacggcat 120  
 tgatgtcttt gatccaaaat tcaacattgt ctcccctgga gctgatcaaa ccatttactt 180  
 cccccccacc gaaactagcc gtaggttgac ctcttccac cccgaaatcg aagaacttct 240  
 ttacagct 248

<210> 2411  
 <211> 250  
 <212> DNA  
 <213> Glycine max

<400> 2411

tggagacagg aggaaggagt caaaggactt ggaagaaaag gccgagatga agaagatgta 60  
 cggcctgata gagacctaca agttgaacgg ccaattcaga tggatttcat cgcagatgaa 120  
 ccgtgtgagg atggagagct ctaccgctg atctgcgaca ccaggggtgc tttcgtgcag 180  
 cctgctgtat acgaggcttt tggtttgaca gtggttgagg ccatgacttg cggcttgcca 240  
 acattcgcca 250

<210> 2412  
 <211> 253  
 <212> DNA  
 <213> Glycine max

<400> 2412

caaaaccag atgcactcca acatgttctg aggaaagctg aggagtatct gggcacagtg 60  
 cctcctgaaa ctccctactc agaatttgag gacaagttcc aggagattgg tttggcgaga 120  
 gggcggggtg acaagcagag cgtgttcttg agtcaattca acttctcttg gatcttcttg 180  
 aggcccctga cccttgacc cttgagactt tccttgggaag aattcctatg gtcttcaatg 240  
 ttgtcattct ttc 253

<210> 2413  
 <211> 237  
 <212> DNA  
 <213> Glycine max

<400> 2413

cagatctgat tgttggaac tacagtgat gaaacattgt cgcttctttg ttggcacata 60  
aattaggtgt cactcagtgt accattgctc acgcacttga gaagaccaa taccccaat 120  
ccgacattta ctggaaaata ttggaagaga gataccactt ctcttgcaa ttccccgctg 180  
atctatttgc catgaaccac acagatttca ttatcaccag taccttccag gagattg 237

<210> 2414  
<211> 264  
<212> DNA  
<213> Glycine max

<400> 2414

tagcaatgac actgttggaac agtatgagtc tgacacagcc ttacccttc ctggactcta 60  
ccgtgttggtg cacggcattg atgtctttga tccaaaattc aacattgtct ccccgagct 120  
gatcaaacca ttacttccc cccaccgaa actagccgta ggttgacctc cttccacccc 180  
gaaatcgaag aacttcttta cagctctgtg gagaatgaag aacacatatg cgtgctgaag 240  
gaccgcagca agccgattat cttc 264

<210> 2415  
<211> 246  
<212> DNA  
<213> Glycine max

<400> 2415

gaagaacaca tatgcgtgct gaaggaccgc agcaagccga ttatcttcac catggcaagg 60  
ttggaccgtg tgaagaacat cacaggactc gtggagtggc acggaagaa cgcgaaactga 120  
gggagttggt gaaccttggt gttgttgccg gagacaggag gaaggagtcg aaggacttgg 180  
aagagaaggc cgagatgaag aagatgtacg gcctgatcga gacctacaag ttgaacgggc 240  
aattca 246

<210> 2416  
<211> 247  
<212> DNA  
<213> Glycine max

<400> 2416

ttcacagctg atctatttgc catgaaccac acagatttca ttattaccag taccttccag 60



gagattgctg gaagcaagga cactgttgga cagtatgagt ctcacacagc ctttaccctt 120  
cctggactct accgtgttgt gcacggcatt gatgtctttg atccaaaatt caacattgtc 180  
tcccctggag ctgatcaaac catttacttc cccccaccg aaactagccg taggttgacc 240  
tccttcc 247

<210> 2417  
<211> 257  
<212> DNA  
<213> Glycine max

<220>  
<221> unsure  
<222> (1)..(257)  
<223> unsure at all n locations

<400> 2417

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gacactgttg gacagtatga gtctcacaca gcctttaccc ttcttgact ctaccgtgtt 120  
gtgcacggca ttgatgtctt tgatccaaaa ttcaacattg tctcccctgg agctgatcaa 180  
accatttact tccccccac cgaaactagc cgtagttgac ctcttccac cccgaaatcg 240  
aagaacttct ttacagc 257

<210> 2418  
<211> 247  
<212> DNA  
<213> Glycine max

<400> 2418

cggcactgat gtctttgatc caaaattcaa cattgtatcc cctggagctg atcaaaccat 60  
ttacttcccc cccaccgaaa ctagccgtag gttgacctcc ttccaccccg aaatcgaaca 120  
acttctttac agctctgtgg agaatagaaga acacatatgc gtgctgaagg accgcagcaa 180  
gccgattatc ttcacatgg caaggttgga ccgtgtgaac gacatcacag gactcgtgga 240  
gtggtac 247

<210> 2419  
<211> 267  
<212> DNA  
<213> Glycine max

<400> 2419

gccaatcag atggatatcc tctcagatga accgtgtgag gaacggagag ctctaccgtg 60  
tcattctgtga cacaaggggt gcctttgtgc agcctgcagt ttatgaggcc tttgggttga 120  
ctgtgggttga ggccatgact tgtgggttgc caacgtttgc cacatgcaat ggtggtcctg 180  
ctgagatcat tgtgcatgga aaatctggtt accacattga tccttaccat ggtgaccatg 240  
ctgctgagat ccttggttggag ttctttg 267

<210> 2420

<211> 229

<212> DNA

<213> Glycine max

<400> 2420

gtgacaacgc agagcgtggt cttgagtcaa ttcaacttct cttggatctt cttgaggccc 60  
ctgacccttg cacccttgag actttccttg gaagaattcc tatggtcttc aatgttgtca 120  
ttctttctcc ccatgggttac ttgcccgaag ataatgtctt gggataccct gacactgggtg 180  
gccaggttgt ttacatcttg gatcaagttc gtgctttgga gaacgagat 229

<210> 2421

<211> 265

<212> DNA

<213> Glycine max

<400> 2421

gtcaaaggac ttggaagaaa aggccgagat gaagaagatg tacggcctga tcgagaccta 60  
caagttgaac ggccaattca gatggatttc atcgagatg aaccgtgtga ggaatggaga 120  
gctctaccgc gtgatctgcg acaccagggg tgctttcgtg cagcctgctg tatacgaggc 180  
ttttggtttg acagtggttg aggccatgac ttgcggcttg ccaagattcg ccacatgcaa 240  
tgtgggtcct gctgagatca ttgtg 265

<210> 2422

<211> 250

<212> DNA

<213> Glycine max

<400> 2422

ggaagagaga taccacttct cttgcccaatt cacagctgat ctatttgcca tgaaccacac 60  
agatttcatt atcaccagta ccttccagga gattgctgga agcaaggaca ctgttggaca 120  
gtacgaatct cacacagcct tcacccttcc tggactctac cgcgttgtgc atggtattga 180  
tgtctttgat ccaaaattca acattggctc ccctggagct gatcatacca ttacttccc 240  
ccacactgaa 250

<210> 2423  
<211> 237  
<212> DNA  
<213> Glycine max  
<400> 2423

ataccacttc tcttgccaat tcacagctga tctatttgcc atgaaccaca cagatttcatt 60  
tataccaggt accttccagg agattgctgg aagcaaggac actgttggac agtatgagtc 120  
tcacacagcc ttacccttc ctggactcta ccgtgttgtg cacggcattg atgtctttga 180  
tccaaaattc aacattgtct ccctggagc tgatcaaacc attacttcc ccccccac 237

<210> 2424  
<211> 282  
<212> DNA  
<213> Glycine max  
<400> 2424

gcgtgctgaa ggaccgcagc aagccgatta tcttcacat ggcaagggtg gaccgtgtga 60  
agaacatcac aggactcgtg gactggcacg gtaagaacgc gaactgaggg agttggtgaa 120  
ccttgtgggt gttgccggag acaggaggaa ggagtcgaag gacttgaag agaaggccga 180  
gatgaagaag atgtacggcc tgatcgagac ctacaagttg aacgggcaat tcagatggat 240  
ttcatctcag atgaaccgtg tgaggaacgg agagctgtac cg 282

<210> 2425  
<211> 313  
<212> DNA  
<213> Glycine max  
<400> 2425

gtacgtaagt tcggtctacg gctcgttcag catcgacatc ctctcacatg aactgtgtga 60

cgaacggaga gctctaccgt gtcattctgtg acacaagggg tgcctttgtg cagcctgcag 120  
 tttatgaggc ctttgggtac actgtgggtg aggccatgac ttgtgggttg ccaacgtttg 180  
 ccacatgcaa tgggtggctc gctgagatca ttgtgcatgg aaaatctggt taccacattg 240  
 atccttacca tggtgaccat gctgctgaga tccttggtga gttctttgag aagagcaagg 300  
 ctgatccatc tca 313

<210> 2426  
 <211> 271  
 <212> DNA  
 <213> Glycine max

<400> 2426

gagaatgagg aacacatatg cgtattgaag gaccgcaaca aaccaataat cttcaccatg 60  
 gcaaggcttg accgtgtgaa gaacatcacg gggcttgctg agtggtagcg gaagaacgca 120  
 cgctccgcg agttggtgaa cctgggtggtg gtggctggag acaggaggaa ggagtcgaag 180  
 gacttggaag agaaggccga gatgaagaag atgtatggcc tcatcgagac ctacaagttg 240  
 aacggccaat tcagatggat atcctctcag a 271

<210> 2427  
 <211> 258  
 <212> DNA  
 <213> Glycine max

<400> 2427

aaaccattta cttccccccc accgaaacta gccgtagggt gacctccttc cccccgaaa 60  
 tcgaagaact tctttacagc tctgtggaga atgaagaaca catatgcgtg ctgaaggacc 120  
 gcagcaagcc gcttatcttc accatggcaa ggttggaccg tgtgaagaac atcacaggac 180  
 tcgtggagtg gtacggtaag aacgcgaact cgaggaggtt ggtgaacctt gtggttggtg 240  
 ccggagacag gaggaagg 258

<210> 2428  
 <211> 263  
 <212> DNA  
 <213> Glycine max

<400> 2428

tacaagttga acggccaatt cagatggata tcctctcaga tgaaccgtgt gaggaacgga 60  
gagctctacc gtgtcatctt cgacacaagg ggtgcctttg tgcagcctgc agtttatgag 120  
gcctttgggt tgactgtggt tgacgccatg acttgtgggt tgccaacggt tgccacatgc 180  
aatggtggtc ctgctgagat cattgtgcat ggaaaatctg gttaccacat tgatccttac 240  
catggtgacc atgctgctga gat 263

<210> 2429  
<211> 252  
<212> DNA  
<213> Glycine max

<400> 2429

ggaagtaaat ggtttgatca gctccagggg agacatcctt ccaccctgaa atcgaagaac 60  
tcctttacag ctgagtggag aatgaagaac acatatgtgt gctgaaggac cgcagcaagc 120  
caattatctt caccatggca aggttggatc gagtgaagaa catcacagga cttgtggagt 180  
ggtacggtaa gaacgcgaac tcgaggggagc tgggtgaacct tgtggttggt gctggagaca 240  
ggaggaagga gt 252

<210> 2430  
<211> 234  
<212> DNA  
<213> Glycine max

<400> 2430

gggaaagact ttgatgttga atgacagcct tcaaaaccca gatgcactcc aacatgttct 60  
gaggcaagct gaggagtatc tgggcacagt gcctcctgaa actccctact cagaatttga 120  
gcacaagttc caggagattg gtttggagag aggggtgcggt gacaacgcag agcgtgttct 180  
tgagtcaatt caacttctct tggatcttct tgaggcccct gacccttgca ccct 234

<210> 2431  
<211> 266  
<212> DNA  
<213> Glycine max

<400> 2431

gtgacattct cagagttcct ttcagaacag aaaaggggaat tgttcgcaaa tggatctcaa 60

gattcgaagt ctggccatac ctagagactt aactgagga tgcgcgccctt gaacttgcca 120  
aggagtgtgca agccaagcca gatctgattg ttggaaacta cagtgatgga aacattgttg 180  
cctctttgtt agcacataaa ttaggagtaa ctcagtgtac cattgctcat gctctagaaa 240  
agaccaagta ccctgagtct gacatt 266

<210> 2432  
<211> 276  
<212> DNA  
<213> Glycine max

<220>  
<221> unsure  
<222> (1)..(276)  
<223> unsure at all n locations

<400> 2432

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tactgctgat ctttttgcaa tgaaccacac agactttatc atcaccagca ccttccaaga 120  
gattgctgga agcaaggaca ctgntggaca gtatgagagt cacactgcct tcacccttcc 180  
aggactttac cgtgttggtc acggtattga tccatttgat ccaaagttca acattgtctc 240  
tcccggtgca gacatgggta tatacttccc atacac 276

<210> 2433  
<211> 268  
<212> DNA  
<213> Glycine max

<400> 2433

tcgagaccta caagttgaac ggccaattca gatggatata ctctcagatg aaccgtgtga 60  
ggaacggaga gctctaccgt gtcattctgtg acacaagggg tgcctttgtg cagcctgcag 120  
tttatgaggc ctttggttg actgtggttg aggccatgac gtgtgggttg ccaacgtttg 180  
ccacatgcaa tgggtggtcct gctgagatca ttgtgcatgg aaaatctggg taccacattg 240  
atccttacca tgggtgacct gctgctga 268

<210> 2434  
<211> 279  
<212> DNA

<213> Glycine max  
 <400> 2434

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gcgtattgaa ggaccgcaac aaaccaataa tcttcaccat ggcaaggctt gaccgtgtga 60
agaacatcac ggggcttgtc gagtggtcgg gaagaacgca cgcctccgag agttggtgaa 120
cctgggtggtg gtggctggag acaggaggaa ggcgtcgaag gacttggaag agaaggccga 180
gatgaagaag atgtatggcc tcatcgagac ctacaagttg aacggccaat tcagatggat 240
atcctctcag atgaaccgtg tgaggaacgg agagctcta 279

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<210> 2435  
 <211> 222  
 <212> DNA  
 <213> Glycine max  
 <400> 2435

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cgttggtttac atcttggtac acgttcgtgc tttggagatt gagatgctcc atcgcatata 60
gcaacaagga ttggacattg ttctcgtat tctcattatc acccgtcttc tccccgatgc 120
agtaggaact acttggtggc aacgtcttga gaaggtgttc ggaactgagc actcccacat 180
tcttcgagtt ccctttagaa ctgagaaggg aattgttcgc aa 222

```

<210> 2436  
 <211> 259  
 <212> DNA  
 <213> Glycine max  
 <400> 2436

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atggatctca agattcgaag tctggccata cctagagact tacactgagg atgtcgccct 60
ggaacttgcc aaggagttgc aagccaagcc agatctgatt gttggaaact acagtgatgg 120
aaacattggt gcctctttgt tagcacataa attaggagta actcagtgtg ccattgctca 180
tgctctagaa aagaccaagt accctgagtc tgacatttac tggaaaaaat ttgaagagaa 240
atatcatttc tcatgcaa 259

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<210> 2437  
 <211> 251  
 <212> DNA  
 <213> Glycine max

<400> 2437

gtccaaggac ttggaagaga aggccgagat gaagaagatg tatggcctca tcgagaccta 60

caagttgaac ggccaattca gatggatctc ctctcagatg aaccgtgtga ggaacggaga 120

gctctaccgt gtcattctgtg acacaagggg tgcctttgtg cagcctgcag tttatgaggc 180

ctttggggtg actgtgggtg aggccatgac ttgtgggtta ccaacatttg ccacatgcaa 240

tggtggtcct g 251

<210> 2438

<211> 253

<212> DNA

<213> Glycine max

<400> 2438

ggagagctgt accgtgtgat ctgcgacacc aatggagctt tcgtgcagcc ggctatatac 60

gaggcttttg gcttgacact ggttgaagcc atgacttgta ggttgccaac attcgccaca 120

tgcaatgggtg gtcttgctga gatcattgtg catggcaagt ctggcttcca cattgaccct 180

taccatgggtg accgtgctgc ggatctccct gctgacttct ttgagaagtg caagcttgac 240

ccaacccact ggg 253

<210> 2439

<211> 229

<212> DNA

<213> Glycine max

<400> 2439

cccatgggtta ctttgcccaa gataatgtct tgggataccc tgacactggg gccaggttg 60

tttacatctt ggatcaagtt cgtgcttttg agaacgagat gtcctatcgc attaagcaac 120

aaggattgga cattgtacct cgtattctca ttatcaccgg tcttctcccc gatgcaatcg 180

gaactacttg tggccaacgt cttgagaagg tgttcggaac cgagcactc 229

<210> 2440

<211> 260

<212> DNA

<213> Glycine max

<400> 2440



gccgagatga agaagatgta tggcctcatc gagacctaca agttgaacgg ccaattcaga 60  
 tggatatacct ctcagatgaa ccgtgtgagg aacggagagc tctaccgtgt catctgtgac 120  
 acaaggggtg cctttgtgca gcctgcagtt tatgaggcct ttgggttgac tgtgggttgag 180  
 gccatgactt gtgggttgcc aacgtttgcc acatgcaatg gtggtcctgc tgagatcatt 240  
 gtgcatggaa aatctggtta 260

<210> 2441  
 <211> 250  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(250)  
 <223> unsure at all n locations

<400> 2441

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 tcatgcactt gagaagacca aataccccga atccgacatt tactggaaaa aattggaaga 120  
 gagataccac ttctcttgcc aattcacagc tgatctatct gccatgaacc acacagattt 180  
 catcacaanc agtaccttcc aggagattgc tggactgcag gacactgttg gacagtatga 240  
 gtctcacaca 250

<210> 2442  
 <211> 259  
 <212> DNA  
 <213> Glycine max

<400> 2442

gcttctttac agctcagtgg agaatgagga acacatatgc gtattgaagg accgcaacaa 60  
 accaataatc ttcaccatgg caaggcttga ccgtgtgaag aacatcacgg ggcttgtcga 120  
 gtggtacggg aagaacgcac gcctccgcga gttggtgaac ctggtggtgg tggttgagga 180  
 caggaggaag gagtcgaagg acttggaaga gaaggccgag atgaagaaga tgtatggcct 240  
 catcgagacc tacaagttg 259

<210> 2443  
 <211> 244

<212> DNA  
 <213> Glycine max  
 <400> 2443  
 aaggacttgg aagagaaggc cgagatgaag aagatgtatg gcctcatcga gacctacaag 60  
 ttgaacggcc aattcagatg gatctcctct cagatgaacc gtgtgaggaa cggagagctc 120  
 taccgtgtca tctgtgacac aaggggtgcc tttgtgcagc ctgcagttta tgaggccttt 180  
 gggttgactg tggttgaggc catgacttgt gggttaccaa catttgccac atgcaatggc 240  
 ggtc 244

<210> 2444  
 <211> 220  
 <212> DNA  
 <213> Glycine max  
 <400> 2444  
 cccccacact gaaaccagcc gtaggttgac atccttccac cctgaaatcg aagaactcct 60  
 ttacagctca gtggagaatg aagaacacat atgtgtgctg aaggaccgca gcaagccaat 120  
 tatcttcacc atggcaaggt tggatcgagt gaagaacatc acaggacttg tggagtggta 180  
 cggtaagacc gcgaactgga gggacctgga aaaccttggg 220

<210> 2445  
 <211> 248  
 <212> DNA  
 <213> Glycine max  
 <400> 2445  
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 ccaatttact gctgatcttt ttgcaatgaa ccacacagac tttatcatca ccagcacctt 120  
 ccaagagatt gctggaagca aggacactgt tggacagtat gagagtcaca ctgccttcac 180  
 ccttccagga ctttaccgtg ttgttcacgg tattgatcca tttgatccaa agttcaacat 240  
 tgtctctc 248

<210> 2446  
 <211> 262  
 <212> DNA  
 <213> Glycine max

<400> 2446

cacggggcctt gtcgagtggg acggaagaa cgcacgcctc cgcgagttgg tgaacctggt 60

ggtgggtggct ggagacagga ggaaggagtc gaaggacttg gaagagaagg ccgagatgaa 120

gaagatgtat ggcctcatcg agacctacaa gttgaacggc caattcagat ggatatacctc 180

tcagatgaac cgtgtgagga acggagagct ctaccgtgtc atctgtgaca caaggggtgc 240

tcctgtgcag cctgcagttt at 262

<210> 2447

<211> 273

<212> DNA

<213> Glycine max

<400> 2447

gaacttgcca aggagttgca agccaagcca gatctgattg ttggaaacta caatgatgga 60

aacattgttg cctctttgtt agcacataaa ttaggagtaa ctcagtgtac cattgctcat 120

gctctagaaa agaccaagta ccctgagtct gacatttact ggaaaaaatt tgaagagaaa 180

tatcatttct catgccaaatt tactgctgat ctttttgcaa tgaaccacac agactttatc 240

atcaccagga ccttccaaga gattgctgga agc 273

<210> 2448

<211> 290

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)..(290)

<223> unsure at all n locations

<400> 2448

taancagatt gatccttacc atggtganca tgctgctgag atccttggtg agntctttga 60

gaagancaag gctgntnct ctcactggga cnnaatctcc caggngggac tcaagcgtat 120

tcatgnnaag tacacatggc aaatttactc ggncaggctc ttgacactca ctgggtgtgta 180

tggcttctgg aagcacgtga ccaatcttga acgccgtgag agcaaacgtt acctcgagat 240

gttctatgct ctcaagtacc gcaaattggc tgagtctgtg ccccttgcta 290

<210> 2449  
 <211> 257  
 <212> DNA  
 <213> Glycine max

<400> 2449

gaagaacgca cgcctccgcg agttggtgaa cctgggtggtg gtggctggag acaggaggaa 60  
 ggagtcgaag gacttggaag agaaggccga gatgaagaag atgtatggcc tcatcgagac 120  
 ctacaagttg aacggccaat tcagatggat atcctctcag atgaaccgtg tgaggaacgg 180  
 agagctctac cgtgtcatct gtgacacaag gggcgccttt gtgcagcctg cagtttatga 240  
 ggcctttggg ttgactg 257

<210> 2450  
 <211> 304  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(304)  
 <223> unsure at all n locations

<400> 2450

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 tcactgggac aaaatctccc aggggtggact caagcgtatt catgagaagt acacatggca 120  
 aatttactcg gacaggctct tgacactcac tgggtgtgtat ggctnccgana agcacgtgac 180  
 caatcttgaa cgccgtgaga gcaaaccgtta cctcgagatg ttctatgctc tcaagtaccg 240  
 caaattggct gagtctgtgc cccttgctat tgaagagtaa attcatgttt gaagagaaca 300  
 tcaa 304

<210> 2451  
 <211> 248  
 <212> DNA  
 <213> Glycine max

<400> 2451

agaaggccga gatgaagaag atgtatggcc tcatcgagac ctacaagttg aacggccaat 60  
 tcagatggat atcctctcag atgaaccgtg tgagaaacgg agagctctac cgtgtcatct 120

gtgacacaag ggggtgccttt gtgcagcctg cagtttatga ggcctttggg ttgactgtga 180  
gataggccat gacttgtggg ttgccaacgt ttgccacatg caatgggtgg cctgctgaga 240  
tcattgtg 248

<210> 2452  
<211> 255  
<212> DNA  
<213> Glycine max

<400> 2452

agaacatcac ggggcttgtc gagtggtagc ggaagaacgc acgcctccgc gaggttggtga 60  
acctgggtgg ggtggctgga gacaggagga aggagtcgaa ggacttggaa gagaaggccg 120  
agatgaagaa gatgtatggc ctcacgaga cctacaagtt gaacggccaa ttcagatgga 180  
tatacctctca gatgaaccgt gtgaggaacg gagagctcta ccgtgtcatc tgtgacacaa 240  
ggggtgcctt tgtgc 255

<210> 2453  
<211> 259  
<212> DNA  
<213> Glycine max

<400> 2453

gaagaacatc acggggcttg tcgagtggta cgggaagaac gcacgcctcc gcgagttggt 60  
gaacctgggtg gtgggtggctg gagacaggag gaaggagtcg aaggacttgg aagagaaggc 120  
cgagatgaag aagatgtatg gcctcatcga gacctacaag ttgaacggcc aattcagatg 180  
gatatacctc cagatgaacc gtgtgaggaa cggagagctc taccgtgtca tctgtgacac 240  
aaggggtgcc tttgtgcag 259

<210> 2454  
<211> 276  
<212> DNA  
<213> Glycine max

<400> 2454

gctcgcagct ggcctcatcg agacctacaa gttgaacggc caattcagat ggatatacctc 60  
tcagatgaac cgtgtgagga acggagagct ctaccgtgtc atctgtgaca caaggggtgc 120

ctttgtgcag cctgcagttt atgaggcctt tgggttgact gtggttgagg ccatgacttg 180  
 tacggttgcc aacgtttgcc acatgcaatg gtggtcctgc tgacatcact gtgcatggaa 240  
 aatctggtta ccacattgat ccttaccatg gtgacc 276

<210> 2455  
 <211> 231  
 <212> DNA  
 <213> Glycine max

<400> 2455

cacagcgtca agggaaagac tttgatgttg aatgacagaa ttcaaaaccc agatgcactc 60  
 caacatgttc tgaggcaagc tgaggagtat ctgggcacag tgcctcctga aactccctac 120  
 tcagaatttg agcacaagtt ccaggagatt ggtttggcga gaggggtgcgg tgacaacgca 180  
 gagctagttc ttgagtccat tcaacttctc taggatctac ttgaggcgcc t 231

<210> 2456  
 <211> 245  
 <212> DNA  
 <213> Glycine max

<400> 2456

gaaaagacca agtaccctga gtctgacatt tactggaaaa aatttgaaga gaaatatcat 60  
 ttctcatgcc aatttactgc tgatcttttt gcaatgaacc acacagactt tatcatcacc 120  
 agcaccttcc aagagattgc tggaagcaag gacactgttg gacagtatga gagtcacact 180  
 gccttcaccc ttccaggact ttaccgtgtt gttcacggta ttgatccatt tgatcaaagt 240  
 tcaac 245

<210> 2457  
 <211> 236  
 <212> DNA  
 <213> Glycine max

<400> 2457

cagaccaagt accctgagtc tgacatttac tggaaaaaat ttgaagagaa atatcatttc 60  
 tcatgccaat ttactgctga tctttttgca atgaaccaca cagactttat catcaccagc 120  
 accttccaag agattgctgg aagcaaggac actggttgac agtatgagag tcacactgcc 180

ttcacccttc caggacttta ccgtgttggt cacggtattg atccatttga tccaaa 236

<210> 2458  
 <211> 236  
 <212> DNA  
 <213> Glycine max

<400> 2458

gggaattggt cgcaaatgga tctcaagatt cgaagtctgg ccatacctag agacttacac 60

tgaggatgtc gcccttgaac ttgccaagga gttgcaagcc aagccagatc tgattgttgg 120

aaactacagt gatggaaaca ttgttgcttc tttgttagca cataaattag gagtaactca 180

gtgtaccatt gctcatgctc tagaaaagac caagtaccct gagtctgaca ttact 236

<210> 2459  
 <211> 254  
 <212> DNA  
 <213> Glycine max

<400> 2459

cccacactga aaccagccgt aggttgacat ccttccaccc tgaaatcgaa gaactccttt 60

acagctcagt ggagaatgaa gaacacatat gtgtgctgaa ggaccgcagc aagccaatta 120

tcttcaccat ggcaagggtg gatcgagtga agaacatcac aggacttgtg gagtggtagc 180

gtaagaacgc gaactcgagg gctggtgaac cttgtggttg ttgctggaga caggaggaag 240

gagtcaaagg actt 254

<210> 2460  
 <211> 261  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(261)  
 <223> unsure at all n locations

<400> 2460

ccancaattc ccttctcagt tctaaagga attgttcgtc annnngatct cangattcga 60

agtctggcca tacttggaac cttacactga ggaacttgct catgagcttg ccaaagagtt 120

gcaaggcaag ccagatctga ttgtcgaaa ctacagtgat ggaaacattg ttgcctcttt 180  
 gttggcacat aaattaggag tcatcagtgt accattgctc atgcacttga gaagaccaaa 240  
 taccocgaat ccgacattta t 261

<210> 2461  
 <211> 277  
 <212> DNA  
 <213> Glycine max

<400> 2461

catcaagaaa caaggccttg atatcacccc tcgtattctc attatcactc gtcttctccc 60  
 tgatggcagt aggaactacc tgtggccaac gtctagagag ggtatatgat actgaatatt 120  
 gtgacattct cagagttcct ttcagaacag aaaagggaaat tggtcgcaaa tggatctcaa 180  
 gattcgaagt ctggccatac ctagagactt aactgagga tgtcgccctt gaacttgcca 240  
 aggagttgca agccaagcca gatctgattg ttggaaa 277

<210> 2462  
 <211> 247  
 <212> DNA  
 <213> Glycine max

<400> 2462

ggctcgagcg gctcgagcga aactagccag aggttgacct ccttacaccc cgaaatcgaa 60  
 gaacttgttt acagctctgt ggagaatgaa gaacacatat gcgtgctgaa ggaccgcagc 120  
 aagccgatta tcttcacat ggcaagggtg gaccgtgtga agaacatcac aggactcgtg 180  
 gagtggtacg gtaagaacgc gaagctgagg gagttggtga accttggtgtg ttgtgccgga 240  
 gacagga 247

<210> 2463  
 <211> 250  
 <212> DNA  
 <213> Glycine max

<400> 2463

cggctcgagg tttatgaggc ctttgggttg actgtggttg aggccatgac ttgtgggttg 60  
 ccaacgtttg ccacatgcaa tgggtggtcct gctgagatca ttgtgcatgg aaaatctggt 120



taccacattg atccttacca tggtgaccat gctgctgaga tccttggtga gttctttgag 180  
aagagcaagg ctgatccatc tcaactgggac aaaatctccc aggggtggact caagcgtatt 240  
catgagaagt 250

<210> 2464  
<211> 268  
<212> DNA  
<213> Glycine max

<400> 2464

cagactttat catcaccagc accttccaag agattgctgg aagcaaggac actgtttggac 60  
agtatgagag tcacactgcc ttcacccttc caggacttta cctgtttggt cacggtattg 120  
atccatttga tccaaagtgc aacattgtct ctcccgggtgc agacatgggt atatacttcc 180  
catacactga aactgagcgt aggttaacag aattccactc tgacattgaa tcgcttcttt 240  
acagctcagt ggagaatgag gaacacat 268

<210> 2465  
<211> 283  
<212> DNA  
<213> Glycine max

<400> 2465

ttgccacatg caatggtggt cctgctgaga tcattgtgca tggaaaatct gggtaccaca 60  
ttgatcctta ccatggtgac catgctgctg agatccttgt tgagttcttt gagaagagca 120  
aggctgatcc atctcactgg gacaaaatct cccaggggtgg actcaagcgt attcatgaga 180  
agtacacatg gcaaatttac tcggacaggc tcttgacact cactggtgtg tatggcttct 240  
ggaagcacgt gaccaatctt gaacgccgtg agagcaaacg tta 283

<210> 2466  
<211> 269  
<212> DNA  
<213> Glycine max

<400> 2466

gtttacatct tggatcaagt tcgtgccttg gagaatgaga tgctcaaccg catcaagaaa 60  
caaggccttg atatcacccc tcgtattctc attatcactc gtcttctcca gcatgcagta 120

ggaactacct gtggccaacg tctagagagg gtatatgata ctgaatattg tgacattctc 180  
agagttcctt tcataacaga aaagggaatt gttcgcaa at ggatctcaag attcgaagtc 240  
tggccatacc tagagactta cactgagga 269

<210> 2467  
<211> 253  
<212> DNA  
<213> Glycine max

<400> 2467

caagaatgcg cgctccgcg agttggtaaa cctcgtggtg gtggccggag acaggaggaa 60  
ggagtccaag gacttggaag agaaggccga gatgaagaag atgtatggcc tcatcgagac 120  
ctacaagttg acggccaatt cagatggatc tcctctcaga tgaaccgtgt gaggaacgga 180  
gagctctacc gtgtcatctg tgacacaagg ggtgcctttg tgcagcctgc agtttatgag 240  
gcctttgggt tga 253

<210> 2468  
<211> 251  
<212> DNA  
<213> Glycine max

<400> 2468

tatcacttct catgccaaatt tactgctgat ctttttgcaa tgaaccacac agactttatc 60  
atcaccagca ccttccaaga gattgctgga agcaaggaca ctggttgaca gtatgagagt 120  
cacactgcct tcacccttcc aggactctac cgtgttggtc acggtattga tccctttgat 180  
ccagagttca acatcgtctc tcccggtgcc gacatgagca tatacttccc atacactgaa 240  
actgagcgta g 251

<210> 2469  
<211> 258  
<212> DNA  
<213> Glycine max

<400> 2469

cggctcgaga cggctgcgag aagcgacaga agggcgacat tgaagagctt ctttacagct 60  
cagtggagaa tgaagaacac atatgtgtat tgaaggaccg caacaagccg atcatcttca 120

ccatggcaag acttgaccgt gtgaagaaca tcacgggact tgtggagtgg tatggcaaga 180  
atgcgcgcct ccgcgagttg gtaaacctcg tgggtggtggc cggagacagg aggaaggagt 240  
ccaagggact tggaagag 258

<210> 2470  
<211> 273  
<212> DNA  
<213> Glycine max

<220>  
<221> unsure  
<222> (1)..(273)  
<223> unsure at all n locations

<400> 2470

attgatccct ttgatccaaa gttcaacatc gtctctcccg gtgccgacat gagcatatac 60  
ttcccataca ctgaaactga gcgtaggtta acagagttcc accccgacat tgaagcgnct 120  
ctttacagct cagtggagaa tgaagaacac atatgtgtat tgaaggaccg caacaagccg 180  
atcatcttca ccatggcaag acttgaccgt gtgaagaaca tcacgggact tgtggagtgg 240  
tatggcaaga atgcgcgcct ccgcgagttg gta 273

<210> 2471  
<211> 257  
<212> DNA  
<213> Glycine max

<400> 2471

atgacttggtg ggttaccaac atttgccaca tgcaatggtg gtcttgctga gatcattgtg 60  
catggaaaat ctggttacca cattgaccct taccatggtg accgtgctgc tgagatcctt 120  
gttgagttct ttgaaaagag caaggctgac ccatctcact gggacaaaat ctcccagggt 180  
gtactcaagc gtattcatga gaagtacaca tggcaaattt actctgacag gctcttgaca 240  
ctcactggtg tgtatgg 257

<210> 2472  
<211> 239  
<212> DNA  
<213> Glycine max

<400> 2472

tggcaagaat ggcgcctcc gcgagttggt aaacctcgtg gtggtggccg gagacaggag 60  
 gaaggagtcc aaggacttgg aagagaaggc cgagatgaag aagatgtatg gcctcatcga 120  
 gacctacaag ttgaacggcc aattcagatg gatctcctct cagatgaacc gtgtgaggaa 180  
 cggagagctc taccgtgtca tctgtgacac aaggggtgcc tttgtgcagc ctgcagttt 239

<210> 2473  
 <211> 263  
 <212> DNA  
 <213> Glycine max

<400> 2473

tgccaattta ctgctgatct ttttgcaatg aaccacacag actttatcat caccagcacc 60  
 ttccaagata ttgctggaag caaggacact gttggacagt atgagagtca cactgccttc 120  
 acccttccag gactctaccg tgttggtcac ggtattgatc cttttgatcc aaagttcaac 180  
 atcgtttctc gcggtgccga catgagcata tacttcccat aactgaaac tgttcgtagg 240  
 ttaacagagt tccacacaac ata 263

<210> 2474  
 <211> 230  
 <212> DNA  
 <213> Glycine max

<400> 2474

ccgctcgagc ggctcgagca gtaccttcca ggagattgct ggaagcaagg aactgtttgg 60  
 acagtatgag tctcacacag cctttadccc tcttgactc taccgtgttg tgcacggcat 120  
 tgatgtcttt gatccaaaat tcaacattgt ctccctgga gctgatcaaa ccatttactt 180  
 cccccccacc gaaactagcc gtaggttgac ctccctccac cccgaaatcg 230

<210> 2475  
 <211> 255  
 <212> DNA  
 <213> Glycine max

<400> 2475

aatttactgc tgatcttttt gcaatgaacc acacagactt tatcatcacc agcaccttcc 60  
 aagagattgc tggactcaag gacactgttg gacagtatga ggtcacact gccttcaccc 120

ttccaggact ttaccgtggt gttcacggta ttgatccatt tgatccaaag ttcaacattg 180  
tctctccccg tgcagacatg ggtatatact tcccatcac tgaaactgag cgtaggttaa 240  
cagaattcca ctctg 255

<210> 2476  
<211> 276  
<212> DNA  
<213> Glycine max

<220>  
<221> unsure  
<222> (1)..(276)  
<223> unsure at all n locations

<400> 2476

ggagtatctg ggcacagngc ctctgaaac tcnctactgc agantttgag cacaagttcc 60  
aggagnntgg tttggagaga nngtgggggtg acaacgcgna ntgtccttga gtcaattcaa 120  
cttctcttgg atcttcttgn ggcccctgac ccgtgcaccc ttgagacttt ccttggaaga 180  
atccctatgg ngttcaatgt tgnnatcttt ctccccatgg ttactttgcc caagataatg 240  
tcttgggana cctgacactg gtggccagggt tgttac 276

<210> 2477  
<211> 251  
<212> DNA  
<213> Glycine max

<400> 2477

gtgacactgc cgagcgtgtc ctcgagatga tccagcttct cctggacctt cttgaggcac 60  
ctgacccttg caccctcgag acattccttg gaagagtccc tatggtcttc aatgttggtta 120  
tcctttctcc ccatggttac tttgcccgaag ataatgtctt gggataccct gacactggtg 180  
gacaggttgt ttacatcttg gatcaagttc gtgccttgga gaatgagatg ctcaaccgca 240  
tcaagaaaca a 251

<210> 2478  
<211> 270  
<212> DNA  
<213> Glycine max

<400> 2478

cggtgcagac atgggtatat acttcccata cactgaaact gagcgtaggt taacagaatt 60

ccactctgac attgaagagc ttctttacag ctcagtggag aatgaggaac acatatgcgt 120

attgaaggac cgcaacaaac caataatctt caccatggca aggcttgacc gtgtgaagaa 180

catcacgggg attgtcgagt ggtacgggaa gaacgcacgc ctccgcgagt tggatgaacct 240

ggtggtggtg gctggagaca ggaggaagga 270

<210> 2479

<211> 174

<212> DNA

<213> Glycine max

<400> 2479

gatcaaacca tttacttccc ccacactgaa accagccgta ggttgacatc cttccaccct 60

gaaatcgaag aactccttta cagctcagtg gagaatgaag aacacatatg tgtgctgaag 120

gaccgcagca agccaattat cttcaccatg gcaagggttg atcgagtga gaac 174

<210> 2480

<211> 239

<212> DNA

<213> Glycine max

<400> 2480

ccatgctgct gagatccttg ttgagttctt tgagaagagc aaggctgac catctcactg 60

ggacaaaatc tcccagggtg gactcaagcg tattcatgag aagtacacat ggcaaattta 120

ctcggacagg ctcttgacac tcaactggtg gtatggcttc tggaacacg tgaccaatct 180

tgaacgcggt gagagcaaac gttacctga gatgttctat gctctcaagt accgcaa 239

<210> 2481

<211> 237

<212> DNA

<213> Glycine max

<400> 2481

gaaccacaca gactttatca tcaccagcac cttccaagag attgctggaa gcaaggacac 60

tggttgacag tatgagagtc aactgcctt cacccttcca ggactctacc gtgttggtca 120

cggtattgat ccctttgatc caaagttcaa catcgtctct cccggtgccg acatgagcat 180  
 atacttccca tacactgaaa ctgagcgtag gttaacagag ttccaccccg acattga 237

<210> 2482  
 <211> 255  
 <212> DNA  
 <213> Glycine max

<400> 2482

ggttaacaga gttccacccc gacattgaag ggcttcttta cagctcagtg gagaatgacg 60  
 aacacatatg tgtattgaag gaccgcaaca agccgatcat cttcaccatg gcaagacttg 120  
 accgtgtgaa gaacatcacg gcacttgtgg agtgggtatgg caagaatgcg cgcctccgcg 180  
 agttggtaaa cctcgtcgtg gtggccggag acaggaggca ggagtccacg gacgtggaag 240  
 agaaggccga gatga 255

<210> 2483  
 <211> 264  
 <212> DNA  
 <213> Glycine max

<400> 2483

gttcttttgag aagagcaagg ctgatccatc tactggggac aaaatctccc aggggtggact 60  
 caagcgtatt catgagaagt acacatggca aatttactcg gacaggctct tgacactcac 120  
 tgggtgtgtat ggcttctgga agcacgtgac caatcttgaa cgccgtgaga gcaaacgtta 180  
 cctcgagatg ttctatgctc tcaagtaccg caaattgggt gagtctgtgc ccttgctatt 240  
 gaagagaaat tcatgtttga agag 264

<210> 2484  
 <211> 233  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(233)  
 <223> unsure at all n locations  
 <400> 2484

ctcgagccga atcggctcga gaacatcaca ggactcgtgg agtggcacgg taagaacgcg 60

acctgnaggg agttggtgaa ccttggtggtt gttgccggag acaggaggaa ggagtcgaag 120  
gacttggaag agaaggccga gatgaagaag atgtacggcc tgatcgagac ctacaagttg 180  
aacgggcaat tcagatggat ttcattctcag atgaaccgtg tgaggaacgg aga 233

<210> 2485  
<211> 267  
<212> DNA  
<213> Glycine max

<400> 2485

atgagatgct caaccgcac aagaaacaag gccttgatat caccctcgt attctcatta 60  
tcactcgtct tctcgtgat gcagtaggaa ctacctgtgg ccaacgtcta gagagggtat 120  
atgatactgg ctattggaca ttctcagagt tcctttcaga acagaaaagg gaattgttcg 180  
caaattggatc tcaagattcg aagtctggcc atacctagag acttacactg aggatgtcgg 240  
ccttgaactt gccaggagt tgcaagc 267

<210> 2486  
<211> 238  
<212> DNA  
<213> Glycine max

<400> 2486

ccgcaacaaa ccaataatct tcaccatggc aaggcttgac cgtgtgaaga acatcacggg 60  
gcttgctcag tggtacggga agcacgcacg cctccgcgag ttggtgaacc tggtggtggt 120  
ggctggagac aggaggaagg agtcgaagga cttggaagag aaggccgaga tgaagaagat 180  
gtatggcctc atcgagacct acaagttgaa cggccaattc agatggatat cctctcag 238

<210> 2487  
<211> 259  
<212> DNA  
<213> Glycine max

<220>  
<221> unsure  
<222> (1)..(259)  
<223> unsure at all n locations  
<400> 2487



gttaacagag ttccaccccg ancattgaan ncgttcttta cagtnagtg gagaatgaag 60  
aacacatatg tgtattgaag gaccgcaaac aagncgatca tcttcacat ggcaagactt 120  
gaccgtgtga agaacatcac gggacttgtg gagtggatatg gcaagaatgc gcgcctccgc 180  
gagttggtaa acctcgtggt ggtggccgga gacaggagga aggagtccaa ggacttggaa 240  
gagaaggccg agatgaaga 259

<210> 2488  
<211> 230  
<212> DNA  
<213> Glycine max

<400> 2488

cctcgacgcc gagcgtgtcc tcgagatgat ccagcttctc ttggaccttc ttgaggcaac 60  
cgacctacc accctcgaga acttccttgg aagagttcct atggtcttca atgttggtat 120  
cctttctccc catggttact ttgcccaaga taatgtcttg gggtagcctg aacttggtgg 180  
acaggttggt tacatcttgg atcaagttcg tgccttggag aatgagatgc 230

<210> 2489  
<211> 229  
<212> DNA  
<213> Glycine max

<400> 2489

gttctttgaa aagagcaagg ctgacccatc tcaactgggac aaaatctccc aggggtggact 60  
caagcgtatt catgagaagt acacatggca aatttactct gacaggctct tgacactcac 120  
tggtgtgtat ggcttctgga agcatgtgac caatcttgaa cgccgtgaga gcaaactgta 180  
ccttgagatg ttctatgctc tcaagtaccg caaattgggt gagtctgtg 229

<210> 2490  
<211> 257  
<212> DNA  
<213> Glycine max

<400> 2490

tattactcgt cttctccctg atgcagtagg aactacctgt ggccaacgtc tagagagggt 60  
atatcatact gaatattgtg acattctccg agttcctttc agaaccgaaa acggaattgt 120

tcgcaaattgg atctcaacat tcgaagtctg gccataccta gagacttaca ctgaggatgt 180  
 tgcccttgaa cttgccaagg agttgcaagc caagccagat ctgatcggtg gaaactacag 240  
 tgatggaaac attgttg 257

<210> 2491  
 <211> 250  
 <212> DNA  
 <213> Glycine max

<400> 2491

acagacttta tcatcaccag caccttccaa gagattgctg gaagcaagga cactgttgga 60  
 cagtatgaga gtcacactgc cttcaccctt ccaggacttt accctgttgt tcacgggtatt 120  
 gatccatttg atccaaagtt caacattgtc tctcccgggtg cagacatggg catatacctc 180  
 ccatacactg aaactgagcg taggttaaca gaattccact ctgacatcga agagcttctt 240  
 tacagctcag 250

<210> 2492  
 <211> 273  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(273)  
 <223> unsure at all n locations

<400> 2492

gccaacgttt gccacatgca atggtggtcc tgctgagatc attgtgcatg gnaaatctgg 60  
 ttaccacatt gatccttaac atggtgacat nctgctgaga tccttggtga gttctttgag 120  
 aagagcaagg ctgatccatc ctcactggga caaaatctcc cagggtggac tcaagcgtat 180  
 tcatgagaag tacacatggc aaatttactc ggacaggctc ttgacactca ctggtgtgta 240  
 tggctctgga agcacgtgac caatctgaac gcc 273

<210> 2493  
 <211> 245  
 <212> DNA  
 <213> Glycine max

<400> 2493

cggctcgagg	tttatgaggc	ctttggggtg	actgtgggtg	aggccatgac	ttgtggggtg	60
ccaacgtttg	ccacatgcaa	tggtgggtcct	gctgagatca	ttgtgcatgg	aaaatctggt	120
taccacattg	atccttacca	tggtgaccat	gctgctgaga	tccttggtga	gttctttgag	180
aagagcaagg	ctgatccatc	tcactgggac	aaaatctccc	agggtggact	caagcgtatt	240
catga						245

<210> 2494  
 <211> 252  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(252)  
 <223> unsure at all n locations

<400> 2494

taacaagttg	aacggccaat	acngatggat	atcctnnacg	atgaaccgtg	tgaggaacgg	60
agagctctac	cgtgtcatct	gtgacacaag	gggtgccttt	gtgcagcctg	cagtttatga	120
ggcctttggg	ttgactgtgg	ttgaggccat	gacttgtggg	ttgccaacgt	ttgccacatg	180
caatggtggt	cctgctgaga	tcattgtgcag	gaaaatctgg	ttaccacatg	atccntacca	240
ggtgaccagc	tg					252

<210> 2495  
 <211> 261  
 <212> DNA  
 <213> Glycine max

<400> 2495

acaggactcg	tggagtggta	cggtaagaac	gcgaactcga	gggagttggt	gaaccttgtg	60
gttggttgccg	gagacaggag	gaaggagtcg	aaggacttgg	aagagaaggc	cgagatgaag	120
aagatgtacg	gcctgatcga	gacctacaag	ttgaacgggc	aattcagatg	gatttcatct	180
cagatgaacc	gtgtgaggaa	cggagagctg	taccgtgtga	tctgcgacac	caagggagct	240
ttcgtgcagc	cggctatata	c				261

<210> 2496

<211> 246  
 <212> DNA  
 <213> Glycine max  
 <400> 2496  
 caaagttcaa cattgtctct cccggtgcag acatgggcat atacttccca tacactgaaa 60  
 ctgagcgtag gttaacagaa ttccactctg acatcgaaac acttctttac agctcagtgg 120  
 agaatgagga acacatatgc gtatgaagga cgcgaacaaa ccaataatct tcaccatggc 180  
 aaggcttgac cgtgtgaaga acatcacggg gcttgctcag tggtacggga agaacgcacg 240  
 cctccg 246

<210> 2497  
 <211> 261  
 <212> DNA  
 <213> Glycine max  
 <400> 2497  
 caggacttta ccgtgttggt cacggtattg atccatttga tccaaagttc aacattgtct 60  
 ctcccgggtgc agacatgggt atatacttcc catacactga aactgagcgt aggttaacag 120  
 aattccactc tgacattgaa gggcttcttt acagctcagt ggagaatgag gaacacatat 180  
 gcgtattgaa ggaccgcaac aaaccactaa tcttcaccat ggcaaggctt gaccgatgtg 240  
 aagaacatca cggggcttgt c 261

<210> 2498  
 <211> 219  
 <212> DNA  
 <213> Glycine max  
 <400> 2498  
 gagatctaca agttgtacgg ccaattcaga tggatatcct ctcagatgaa ccgtgtgagg 60  
 aacggagagc tctaccgtgt catctgtgac acaaggggtg cctttgtgca gcctgcagtt 120  
 tatgaggcct ttaggttgac tttgggtaag gccatgactt gtgggtcgcc aacgtttgcc 180  
 acatgcaatg gtggtcctgc tgagatcatt gtgcatgga 219

<210> 2499  
 <211> 235  
 <212> DNA

<213> Glycine max

<400> 2499

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caaggcttga ccgtgtgaag aacatcacgg ggcttgtcga gtggtacggg aagaacgcac 60
gcctccgcga gttggtgaac ctggtggtgg tggctggaga caggaggaag gagtcgaagg 120
acttgaagag aaggccgaga tgaagaagat gtatggcctc atcgagacct acaagttgaa 180
cggccaattc agatggatat cctctcagat gaaccgtgtg aggaacggag agctc 235
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<210> 2500

<211> 238

<212> DNA

<213> Glycine max

<400> 2500

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acaaaatctc ccaggggtgga ctcaagcgta ttcattgagaa gtacacatgg caaatttact 60
cggacagggt cttgacactc actggtgtgt atggcttctg gaagcacgtg accaatcttg 120
aacgccgtga gagcaaactg tacctcgaga tgttctatgc tctcaagtac cgcaaattgg 180
ctgagtctgt gcccttgct attgaagagt aaattcatgt ttgaagagaa catcaatg 238
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<210> 2501

<211> 264

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)..(264)

<223> unsure at all n locations

<400> 2501

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cagtggagaa tgaggaacac atatgcgtat tgaaggaccg caacaaacca ataattctca 120
ccatggcaag gcttgaccgt gtgaagaaca tcacggggct tgtcgagtgg tacgggaaga 180
acgcacgcct tcgagagatt gntaaccatg ctgatgntgc atgagacagg aggaaggaga 240
ctgaagactt tgaagagaag gccg 264
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<210> 2502

<211> 257

<212> DNA  
 <213> Glycine max  
 <400> 2502  
 ctgaaactga gcgtaggtta acagaattcc actctgacat cgaaacaatt ctttacagct 60  
 cagtggagaa tgaggaacac atatgcgtat tgaaggaccg caacaaacca atatcttcac 120  
 catggcaagg cttgaccgtg tgaagaacat cacggggctt gtcgagtggc acgggaagaa 180  
 cgcacgcctc cgcgagttgg tgaacctggc ggtgggtggc ggagacagga ggaaggagtc 240  
 gaaggacttg gaagaga 257

<210> 2503  
 <211> 175  
 <212> DNA  
 <213> Glycine max  
 <400> 2503  
 caacttctct tggatcttct tgaggccctt gacccttgca cccttgagac tttccttgga 60  
 agaattccta tggctctcaa tgttgcatt ctttctcccc atggttactt tgccaagat 120  
 tatgtcttgg gataccctga cactggtggc caggttggtt acatcttgga tcaag 175

<210> 2504  
 <211> 189  
 <212> DNA  
 <213> Glycine max  
 <400> 2504  
 gggaattggt cgcaaatgga tctcaagatt cgaagtctgg ccatacctag agacttacac 60  
 tgaggatgtc gccctggaac ttgccaagga gttgcaagcc aagctagatc tgattggtgg 120  
 aaactacagt gatggaaaca ttgttgccctc tttgttagca cataaattag gagtaactca 180  
 gtgtacaat 189

<210> 2505  
 <211> 216  
 <212> DNA  
 <213> Glycine max  
 <400> 2505  
 gacatcgaag agcttcttta cagctcagtg gagaatgagg aacacatatg cgtattgaag 60

gaccgcaaca aaccaataat cttcaccatg gcaaggttga cctgtgtgaag aacatcacgg 120  
 ggcttgtcga gtggtacggg aagaaacgaa ggcttcgcga gttggtgaac tgggtggtgg 180  
 ggctgaagac aggaggaagg attcgaggct ttgaaa 216

<210> 2506  
 <211> 246  
 <212> DNA  
 <213> Glycine max

<400> 2506

ctcgagccga atcggctcga gcggctcgag cggctcgaga tgaagcacac atatgtgtat 60  
 tgaaggaccg caacaagccg aacatcttca acatggcaag acttgaccgt gtgaagaaca 120  
 tcacgggact tgtggagtgg tatggcaaga atgcgcgcct ccgcgagttg gtaaacctcg 180  
 tgggtggtgga cggagacagg aggaaggagt ccaaggacgt tgaagagaag gccgagatga 240  
 agaaga 246

<210> 2507  
 <211> 239  
 <212> DNA  
 <213> Glycine max

<400> 2507

tgaagaagat gtacggcctg atcgagacct acaagttgaa cggccaattc agatggattt 60  
 catcgcagat gaaccgtgtg aggaatggag agctctaccg cgtgatctgc gacaccaggg 120  
 gtgctttcgt gcagcctgct gtatacgagg cttttggttt gacagtgggtt gagggcatga 180  
 cttgcggctt gccaacattc gccacatgca atgggtggtcc tgctgagatc attgtgcac 239

<210> 2508  
 <211> 269  
 <212> DNA  
 <213> Glycine max

<400> 2508

gggtggactc aagcgtattc atgagaagta cacatggcaa atttactcgg acaggctctt 60  
 gacactcact ggtgtgtatg gcttctggaa gcacgtgacc aatcttgaac gccgtgagat 120  
 gaaacgttac ctcgagatgt tctatgctct caagtaccgc aaattggctg agtctgtgcc 180

ccttgctatt gacgagtaaa ttcatgtttg aagagaacat caatggcgaa accggctttt 240  
 ggtcgtttga agtcttatgg agctttcat 269

<210> 2509  
 <211> 184  
 <212> DNA  
 <213> Glycine max  
 <400> 2509

aactcagtgt accattgctc atgctctaga aaagaccaag taccctgagt ctgacattta 60  
 ctggaaaaaa tttgaagaga aatatcattt ctcatgccaa tttactgctg atctttttgc 120  
 aatgaaccac acagacttta tcataccag caccttccaa gagattgctg gaagcaagga 180  
 cact 184

<210> 2510  
 <211> 229  
 <212> DNA  
 <213> Glycine max  
 <400> 2510

ggatcaagtt cgtgccttgg agaatgagat gctcaaccgc atcaagaaac aaggccttga 60  
 tatcaccctt cgtattctca ttattactcg tcttctccct gatgcagtag gaactacctg 120  
 tggcgaacgt ctagagaggg tatatgatac tgaatattgt tacattctcc gcggtcctgt 180  
 cagaactgag gagggacttg ttgcgaaatg gagctgaaga ttcgaagtc 229

<210> 2511  
 <211> 215  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(215)  
 <223> unsure at all n locations  
 <400> 2511

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 cacactgcct tcacccttcc aggactttac cgtgttggtc acggtattga tccatttgat 120



ccaaagttca acattgtctc tcccggtgnc gacatgggta tataacttccc atacactgaa 180  
actgagcgta ggtaacaga attccacaca acata 215

<210> 2512  
<211> 235  
<212> DNA  
<213> Glycine max

<400> 2512

atttgatcca aagttcaaca ttgtctctcc cgggtgcagac atgggtatat acttcccata 60  
cactgaaact gagcgtaggt taacagaatt ccactctgac attgacgaag ctctttacag 120  
ctcagtggag aatgaggaac acatatgcgt attgaaggac cgcaacaaac caataatctt 180  
caccatggca aggcttgacc gtgtgaagaa catcacgggg cttgtcgagt ggtac 235

<210> 2513  
<211> 253  
<212> DNA  
<213> Glycine max

<400> 2513

tctcgagcga ttcggatcac ggctcgaggt tcacgggtatt gaccatttg atccaaagct 60  
caacattgtc tctcccgggtg cagacatggg tatatacttc ccatacactg aaactgagcg 120  
taggttaaca gaattccact ctgacattga agagcttctt tacagctcag tggagaatga 180  
ggaacacata tgcgtattga aggaccgcaa caaaccaata atcttcacca tggcaaggct 240  
tgaccgtgtg aag 253

<210> 2514  
<211> 250  
<212> DNA  
<213> Glycine max

<400> 2514

cgggtgcagac atgggtatat acttcccata cactgaaact gagcgtaggt taacagaatt 60  
ccactctgac attgaaacac ctctttacag ctcagtggag aatgaggaac acatatgcgt 120  
attgaaggac cgaacaaacc aataatcttc accatggcaa ggcttgacgc tggtaagaa 180  
ctccacgggg cttgtcgagt ggtaacgggaa gaacgcacgc ctccgcgagt tggtaacct 240

ggtggtggtg

250

<210> 2515  
<211> 269  
<212> DNA  
<213> Glycine max

<220>  
<221> unsure  
<222> (1)..(269)  
<223> unsure at all n locations

<400> 2515

tgcactggta cgggaagaac gcacgcctcc gcgagttggt gaacctggtg gtggtggcng 60  
gagacaggan gaaggagtcn aaggacttgg aagagaaggc cgagntgang aanntgtang 120  
gctcatcgag acctacaagt tgaacggcca attcagatgn atactntctg cagatgaacc 180  
gtgtgaggaa cgganagctc taccgtgtcc atctgtgaca caaggngtgc tttgtgncag 240  
cctgcagttt atgaggcntn gggttganc 269

<210> 2516  
<211> 227  
<212> DNA  
<213> Glycine max

<220>  
<221> unsure  
<222> (1)..(227)  
<223> unsure at all n locations

<400> 2516

cagactttat catcaccagc accttccaag agattgctgg aataanggac actggttgac 60  
agtatgagag tcacactgcc ttcacccttc caggacttta ccgtgttggt cacggtattg 120  
atgcctttga tccaaagttc aacattgtct ctcccgggtgc agacatgggt atatacttcc 180  
catacactga aactgagcgt aggttaacag aattccacac tgcatac 227

<210> 2517  
<211> 244  
<212> DNA  
<213> Glycine max

<220>  
<221> unsure

<222> (1)..(244)  
 <223> unsure at all n locations  
 <400> 2517  
 gtatatactt cccatacact gaaactgagc gtaggttaac agaattccac tctgacattg 60  
 aatctcttct ttacagctca gtggagaatg aggaacacat atgcgtattg aaggaccgca 120  
 acaaaccata atcttcacca tggcaatgct tgacgtgttg aagaacatca cggggcttgt 180  
 cgagtgggtac gggaagaacg cacgcctccg cgagttgngt gaactgggtg tgggtggctgg 240  
 agac 244

<210> 2518  
 <211> 260  
 <212> DNA  
 <213> Glycine max

<400> 2518  
 ccggtgcaga catgggcata tacttcccat aactgaaac tgagcgtagg ttaacagaat 60  
 tccactctga catcgaacta cttctttaca gctcagtgga gaatgaggaa cacatatgcg 120  
 tattgaagga ccgcaacaaa ccaataatct tcaccatggc aaggcttgac cgttgtgaag 180  
 aacatcacgg ggcttgtcga gtggtacggg aagaacgcac gcctccgcga gttggtgaac 240  
 ctggtggtgg tagctggaga 260

<210> 2519  
 <211> 177  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(177)  
 <223> unsure at all n locations

<400> 2519  
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 ttgggttgac tgtggttgag gccatgactt gtgggttacc aacatttgcc acatgcaatg 120  
 gtggtcctnc tgagatcatt gtgcatggaa aatctggtna ccacntnnn cccttnt 177

<210> 2520

<211> 244  
 <212> DNA  
 <213> Glycine max  
  
 <400> 2520  
  
 atagagaggg tatactgata ctgaatattg tgacattctc agagttcctt tcagaacaga 60  
 aaaggggaatt gttcgcaaatt ggatctcaag attcgaagtc tggccataacc tagagactta 120  
 cactgaggat gtcgcccttg aacttgtcaa ggagttgaag ccaagtcaga tctgattggt 180  
 ggaaactaca gtgatggaaa cattgttgcc tctttgttag cacataaatt aggagtcact 240  
 cagt 244

<210> 2521  
 <211> 259  
 <212> DNA  
 <213> Glycine max  
  
 <400> 2521  
  
 gtaaattgtcg gattcggggt atttggtctt ctcaagtgca tgagcaatgg tacactgagt 60  
 gactcctaatt ttatgtgcc acaaagaggc aacaatgttt ccatcactgt agtttccgac 120  
 aatcagatct cattatcacc agtaccttcc aggagattgc tggaagcaag gacactgttg 180  
 gacagtatga ctctcacaca gcctttaccc ttcttggtgact ctaccgtgtt gtgcacggca 240  
 ttgatgtctt tgatccaaa 259

<210> 2522  
 <211> 239  
 <212> DNA  
 <213> Glycine max  
  
 <400> 2522  
  
 cggacaggct cttgacactc actggtgtgt atggcttctg gaagcacgtg accaatcttg 60  
 aacgccgtga gagcaaactg tacctcgaga tggtctatgc tctcaagtac cgcaaattgg 120  
 ctgagtctgt gccccttgct attgaagagt aaattcatgt ttgaagagaa catcaatgga 180  
 gaaaccggct tttggtcggt tgaagtctta tggagctttc ataaataacg ccattgatt 239

<210> 2523  
 <211> 235  
 <212> DNA

<213> Glycine max

<400> 2523

cggacaggct cttgacactc actggtgtgt atggcttctg gaagcacgtg accaatcttg 60  
aacgccgtga gagcaaacgt tacctcgaga tgttctatgc tctcaagtac cgcaaattgg 120  
ctgagtctgt gcccttgct attgaagagt aaattcatgt ttgaagagaa catcaatgga 180  
gaaaccggct tttggtcgtt tgaagtctta tggagctttc ataaataacg ccatt 235

<210> 2524

<211> 143

<212> DNA

<213> Glycine max

<400> 2524

ctcgagccgc accagtacct tccaggagat tgctggaagc aaggacactg ttggacagta 60  
tgcgtctcac acagccttta cccttcctgg actctaccgt gttgtgcacg gcattgatgt 120  
ctttgatcca aaattccaca ttg 143

<210> 2525

<211> 142

<212> DNA

<213> Glycine max

<400> 2525

gtcggaaact acagtgatgg aaacattggt gcctctttgt tggcacataa attaggagtc 60  
actcagtgta ccattgctca tgcacttgag aagagcgaat accccgaatc cgacatgtac 120  
tggacaagat tgggagagag gt 142

<210> 2526

<211> 254

<212> DNA

<213> Glycine max

<400> 2526

ctcactggtg tgtatggctt ctggaagcac gtgaccaatc ttgaacgccg tgagagcaaa 60  
cgttacctcg agatgttcta tgctctcaag taccgcaaatt tggctgagtc tgtgcccctt 120  
gctattgaag agtaaatcca tgtttgaaga gaacatcaat ggagaaaccg gcttttggtc 180

gtttgaagtc ttatggagct ttcataaata acgccattga ttttgattgt gatcagcttt 240  
 tggatttaaa gagt 254

<210> 2527  
 <211> 131  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(131)  
 <223> unsure at all n locations

<400> 2527

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 atgnnnaaga tgtacggcct gatcnananc tacnagttga acgggnaatt cagatggnnn 120  
 ncatctcaga t 131

<210> 2528  
 <211> 161  
 <212> DNA  
 <213> Glycine max

<400> 2528

tatgagagtc aactgcctt cacccttcca ggactctacc gtgttggtca cggatttgat 60  
 ccctttgatc caaagttcaa catcgtctct cccggtgccg acatgagcat atacttccca 120  
 tacactgaaa ctgaacgtag gttaacagag ttccacacaa c 161

<210> 2529  
 <211> 152  
 <212> DNA  
 <213> Glycine max

<400> 2529

ctggactcta ccgcgttggt catggtattg atgtctttga tccaaaattc aacattgtct 60  
 cccctggagc tgatcaaacc atttacttcc cccacactga aaccagccgt aggttgacat 120  
 ccttccaccc tgaaatcgaa gaactccttt ac 152

<210> 2530  
 <211> 232

<212> DNA  
 <213> Glycine max  
 <400> 2530  
 ctgaaactga gcgtagggta acagaattcc actctgagat cgaagcgctt ctttacagct 60  
 cagtggagaa tgaggaacac atatgcgtat tgaaggaccg gaacaaacga atatcttcac 120  
 catggcaagg cttgaccgtg tgaagaacat cacgggggctt gtcgagtggc acgggaagaa 180  
 cgcaagcctc cgcgagttgg tgaacctggc ggtgggtggc ggagacagga gg 232

<210> 2531  
 <211> 244  
 <212> DNA  
 <213> Glycine max  
 <400> 2531  
 ttcgacacgc acggccaggc tcttgacact caccggtgtg tatggcacct ggaagcccgt 60  
 gaccaatcgc gaacgccgtg agagcaaacg ctacgccgag atgttccaag ctactcaagt 120  
 accgcaaatt ggctgagtct gtgccccttg ctactgaaga gtaacttcat gtttgaagag 180  
 aacatcaatg gagacaccgg cttttggtcg tttgaagtct tatggagctt tcataaataa 240  
 cgcc 244

<210> 2532  
 <211> 279  
 <212> DNA  
 <213> Glycine max  
 <400> 2532  
 attcttgagt tcatggaagg gaaaccagat cttgttattg gaaattacac tgatggaaat 60  
 ttggtagcat cactaatggc tagaaaactt gggataactc agggaactat agcacatgct 120  
 ttagagaaga ccaagtatga agactcagat gtcaagtggc aagagttgga cccaagtac 180  
 cacttctcgt gtcaattcat ggcggataga gtggcaatga atgcatctga tttcatcata 240  
 accagcacat accacgaatg tcgtggaagc aaagataga 279

<210> 2533  
 <211> 244  
 <212> DNA  
 <213> Glycine max

<400> 2533

gttcatggaa gggaaaccag atctagttat tggaaattac actgatggaa atttggtagc 60

atcactaatg gctagaaaac ttgggataac tcagggaact atagcacatg ctttagagaa 120

gaccaagtat gaagactcag atgtcaagtg gaaagagttg gacccaagt accacttctc 180

gtgtcaattc atggcggata cagtggcaat gaatgcatct gatttcatca taaccagcac 240

atac 244

<210> 2534

<211> 262

<212> DNA

<213> Glycine max

<400> 2534

gccgtgagag ccgccgctat ctcgagatgt tctatgctct caagtaccgc aaattggctg 60

agtctgtgcc ccttgctgct gagtaaactg aggataaaga gttggataaa gaaatggagg 120

aaccggcttt ttctttctca tttggagttt tgcgcacttg agttttataa ataatgtccg 180

tgatttttagt tttgtgatta agctttcgat aagaggagag aaagagaagg aaaaaaagt 240

tgcttttttt tttggtggtt gc 262

<210> 2535

<211> 266

<212> DNA

<213> Glycine max

<400> 2535

tcgagatggt ctatgctctc aagtaccgca aattggctga gtctgtgccc cttgctgctg 60

agtaaaactga ggataaagag ttggataaag aaatggagga accggctttt tctttctcat 120

ttggagtttg tgcgcacttg gttttataaa taatgtccgt gattttagtt ttgtgattaa 180

gctttcgata agaggagaga aagagaagga aaaaaaagt tgcttttttt tttggtggtg 240

catgattggg acttgattgg aaaagc 266

<210> 2536

<211> 241

<212> DNA

<213> Glycine max



<400> 2536

gttggataaa gaaatggagg aaccggcttt ttctttctca tttggagttt gtcgcacttg 60

agttttataa ataatgtccg tgattttagt tttgtgatta agctttcgat aagaggagag 120

aaagagaagg aaaaaaaaaag ttgctttttt ttttgttgtt gcatgatttg gatcttgatt 180

ggaaaagctt cgaattgggg tagttttacc cagcaattca attttaagcc gtgccttctt 240

c 241

<210> 2537

<211> 274

<212> DNA

<213> Glycine max.

<400> 2537

ctctcaagta ccgcaaattg gctgagtctg tgccccttgc tgctgagtaa actgaggata 60

aagagttgga taaagaaatg gaggaaccgg ctttttcttt ctcatattgga gtttgtcgca 120

cttgagtttt ataaataatg tccgtgattt tagttttgtg attaagcttt cgataagagg 180

agagaaagag aaggaaaaaa aaagttgctt ttttttttgt tgttgcatga tttggatctt 240

gattggaaaa gcttcgaatt ggggtagttt tacc 274

<210> 2538

<211> 275

<212> DNA

<213> Glycine max

<400> 2538

atttttacct tgaaatatgt tgtcattgaa cttgctaatt tatcttgtaa ttgtttttac 60

ctttaggctg agtctgtgcc ccttgctgct gagtaaaactg aggataaaga gttggataaa 120

gaaatggagg aaccggcttt ttctttctca tttggagttt gtcgcacttg agttttataa 180

ataatgtccg tgattttagt tttgtgatta agctttcgat aagaggagag aaagagaagg 240

aaaaaaaaag ttgcttttgt ttttgttgtt gcatg 275

<210> 2539

<211> 256

<212> DNA

<213> Glycine max

<400> 2539

gccgtgagag ccgccgctat ctcgagatgt tctatgctct caagtaccgc aaattggccg 60

agtctgtgcc ccttgctgtt gagtaaactg aggatgaaga gttggataaa gaaatggagg 120

aaccggcttt ttgtttctca tttggagttt gtcttacttg agttctataa ataatatgtc 180

cctgatgatt ttaattttgt gattaagctt tcgataagag acagagagag aaaaaaaaaa 240

aaaaaaaaag gggggg 256

<210> 2540

<211> 259

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)..(259)

<223> unsure at all n locations

<400> 2540

cntgtgtcta accttgaccg ccgtgagagc cgccgctatc tcgagatggt ctatgctctc 60

aagtaccgca aattggccga gtctgtgccc cttgctgttg agtaaactga ggatgaagag 120

ttggataaag aaatggagga accggctttt tggtttctcat ttggagtttg tcttacttga 180

gttctataaa taatatgtcc ctgatgattt taattttgtg attaagcttt cgataagaga 240

cagagagaga aaaaaaagg 259

<210> 2541

<211> 250

<212> DNA

<213> Glycine max

<400> 2541

gccgctatct cgagatgttc tatgctctca agtaccgcaa attggccgag tctgtgcccc 60

ttgctgttga gtaaactgag gatgaagagt tggataaaga aatggaggaa ccggcttttt 120

gtttctcatt tggagtttgt cttacttgag ttctataaat aatatgtccc tgatgatttt 180

aattttgtga ttaagctttc gataagagac agagagagaa aaaaaaggaa aaaaaaaaaa 240

aagcctttta 250

<210> 2542  
 <211> 189  
 <212> DNA  
 <213> Glycine max

<400> 2542

gtgagagccg ccgctatctc gagatgttct atgctctcaa gtaccgcaaa ttggccgagt 60  
 ctgtgccctt tgctgttgag taaactgagg atgaagagtt ggataaagaa atggaggaac 120  
 cggctttttg tttctcattt ggagtttgtc ttacttgagt tctataaata atatgtccct 180  
 gatgatttt 189

<210> 2543  
 <211> 229  
 <212> DNA  
 <213> Glycine max

<400> 2543

gccgtgagag ccgccgctat ctcgagatgt tctatgctct caagtaccgc aaattggccg 60  
 agtctgtgcc ccttgctgtt gagtaaactg aggatgaaga gttggataaa gaaatggagg 120  
 aaccggcttt ttgttctcat ttggagtttg tcttacttga gttctataaa taatatgtcc 180  
 ctgatgattt taattttgtg attaagcttt cgataagaga cagagagag 229

<210> 2544  
 <211> 223  
 <212> DNA  
 <213> Glycine max

<400> 2544

ctttaggccg agtctgtgcc ccttgctgtt gagtaaactg aggatgaaga gttggataaa 60  
 gaaatggagg aaccggcttt ttgtttctca tttggagttt gtcttacttg agttctataa 120  
 ataatatgtc cctgatgatt ttaattttgt gattaagctt tcgataagag acagagagag 180  
 aaaaaaagg aaaaaaaaaa aagcctttta ctttttgtct ttt 223

<210> 2545  
 <211> 282  
 <212> DNA  
 <213> Glycine max

<400> 2545

ctcgagccgc aagacctggt gtgtgggagt acctgagagt gaatgtgcac gctcttggtg 60

ttgaggagtt gcaacctgct gagtacctgc acttcaagga agaacttggt gacggaagtt 120

ctaattggcaa ctttgtgctt gagttggact ttgaaccatt caatgcagcc ttcccccgcc 180

caactcttaa caaggcaatt ggaaatggtg tgcaagacct caaccgtcac ctttctgcca 240

aactcttcca cgacaagggtg agcagacacc cacttttggg gt 282

<210> 2546

<211> 271

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)..(271)

<223> unsure at all n locations

<400> 2546

gttgcaacct gctgagtacc ttcacttcaa ggaagaactt gttgatggaa gttctaattgg 60

caactttgtg cttgagttgg actttgaacc attcaatgca gccttccttc gcncannncc 120

ttaacaagtc aattggaaat ggtgtgcagt tcctcaaccg ccacctttct gccaaactct 180

tccacgaaaa ngaaaaatgg aaaaanactt ttggaattcc tcaggcttca cagcgtcaag 240

ggaaagactt tgatgttgaa tgacagaatc a 271

<210> 2547

<211> 214

<212> DNA

<213> Glycine max

<400> 2547

tgtgcacgct cttgttggtg aggagttgca acctgctgag tacctgcact tcaaggaaga 60

acttgttgac ggaagttcta atggcaactt tgtgcttgag ttggactttg aaccattcaa 120

tgcagccttc ccccgcccaa ctcttaacaa gtcaattgga aatggtgtgc aattcctcaa 180

ccgtcacctt tctgccaac tcttccacac aaca 214

<210> 2548

<211> 87

<212> DNA  
 <213> Glycine max  
 <400> 2548  
 tggactttga accattcaat gcagccttcc ctgcccacac tcttaacaag tcaattggaa 60  
 atggtgtgca gttcctcaac cgccacc 87

<210> 2549  
 <211> 333  
 <212> DNA  
 <213> Glycine max  
 <220>  
 <221> unsure  
 <222> (1)..(333)  
 <223> unsure at all n locations  
 <400> 2549

ctttacaccc ccctctctat tttgcgttca ttctgttttc ttgaagtctt tccctagcca 60  
 atggccactg atcgtttgac ccgggttnca cagtctccgt gagaggcttg atgaaaccct 120  
 cactgccaac gggaacgaaa ttttgccct tctgtcaagg atcgagctaa gggcaagggg 180  
 atcctgcaac accaccaggt cattgctgag tttgaggaaa tccctgagga gaacaggcag 240  
 aagcttactg atggtgcctt tggagaagtc ttgagatcta cacaggaagc catagttttg 300  
 ccaccatggg ttgctctggc tgttcgtcca agc 333

<210> 2550  
 <211> 291  
 <212> DNA  
 <213> Glycine max  
 <400> 2550  
 cccctctct tttttgcgtt cattctgttt tctgatgaa gtctttccct agccaatggc 60  
 caccgatcgt ttgaccggg ttcacagtct ccgtgagagg cttgatgaaa ccctcactgc 120  
 caacaggaat gaaatttttg ccttctgtc aaggatcgaa gccaaaggga agggcactct 180  
 gcaacaccac caggtcattg ctgagtttga ggaaatccct gaggagaaca gacagaagct 240  
 cactgatggt gcctttggag aagtcttgag atctacacag gaagccatag t 291

<210> 2551

<211> 298  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(298)  
 <223> unsure at all n locations

<400> 2551

cgttcattct gttttcagtt gaagtctttc nctagccaat ggccactgat cgtttgacnc 60  
 gtnntcacag tcnccgtgag aggcttgatg aaaccctcac tgccaacagg aacgaaattt 120  
 tggcccttct gtcaaggatc gaagctaagg gcaaggggat cctgcaacac caccaggtca 180  
 ttgctgagtt tgaggaaatc cctgaggaga acaggcagaa gcttactgat ggtgcctttg 240  
 gagaagtctt gagatctaca caggaagcca tagttttgcc accatggggtt gctctggc 298

<210> 2552  
 <211> 262  
 <212> DNA  
 <213> Glycine max

<400> 2552

ttttcctggt gaagtctttc cctagccaat ggccaccgat cgtttgaccc gggttcacag 60  
 tctccgtgag aggcttgatg aaaccctcac tgccaacagg aatgaaattt tggcccttct 120  
 gtcaaggatc gaagccaagg gcaagggcat cctgcaacac caccaggtca ttgctgagtt 180  
 tgaggaaatc cctgaggaga acagacagaa gctcactgat ggtgcctttg gagaagtctt 240  
 gagatctaca caggaagcca ta 262

<210> 2553  
 <211> 291  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(291)  
 <223> unsure at all n locations

<400> 2553

cccctctcta ttttgcgttc attctgtttt ccagttgaag tctttcccta gccaatggcc 60

actgatcggt tgacccgggt tcacagtctc cgtgagaggc ttgatgaaac cctcactgcc 120  
aacaggaacg aaattttggc ccttctgtca aggatcgaag ctaagtanca aggggatcct 180  
gcaacaccac caggtcattg ctgagtttga ggaaatccct gaggagaaca ggcagaagct 240  
tactgatggt gcctttggag aagtcttgag atctacacag gaagccatag t 291

<210> 2554  
<211> 247  
<212> DNA  
<213> Glycine max

<400> 2554

ctcactgcc aacaggaatga aattttggcc cttctgtcaa ggatcgaagc caagggcaag 60  
ggcatcctgc aacaccacca gggtcattgct gagtttgagg aaatccctga ggagaacaga 120  
cagaagctca ctgatggtgc ctttgagaa gtcttgagat ctacacagga agccatagtt 180  
ttgccaccat gggttgctct ggctgttcgt ccaagacctg gtgtgtggga gtacctgaga 240  
gtgaatg 247

<210> 2555  
<211> 268  
<212> DNA  
<213> Glycine max

<400> 2555

tctttatacc cccctctct tttttgcgtt cattctgttt tctgttgaa gtctttccct 60  
agccaatggc caccgatcgt ttgacccggg ttcacagtct ccgtgagagg cttgatgaaa 120  
cctcactgc caacaggaat gaaattttgg cacttctgtc aaggatcgaa gccaaaggca 180  
agggcatcct gcaacaccac caggtcattg ctgagtttga ggaaatccct gaggagaaca 240  
gacagaagct cactgatggt gcctttgg 268

<210> 2556  
<211> 260  
<212> DNA  
<213> Glycine max

<400> 2556

tctctttata cccccctct cttttttgcg ttcattctgt tttcctgttg aagtctttcc 60

ctagccaatg gccaccgatc gtttgaccgc ggttcacagt ctccgtgaga ggcttgatga 120  
aaccctcact gccaacagga atgaaatttt ggcccttctg tcaaggatcg aagccaaggg 180  
caagggcatc ctgcaacacc accaggtcat tgetgagttt gaggaaatcc ctgaggagaa 240  
cagacagaag ctactgatg 260

<210> 2557  
<211> 261  
<212> DNA  
<213> Glycine max

<400> 2557

ccccctctc ttttttgcgt tcattctgtt ttctgttga agtctttccc tagccaatgg 60  
ccaccgatcg tttgaccgcg gttcacagtc tccgtgagag gctggatgaa accctcactg 120  
ccaacaggaa tgaaattttg gcccttctgt caaggatcga agccaagggc aagggcatcc 180  
tgcaacacca ccaggtcatt gctgagtttg aggaaatccc tgaggagAAC agacagaagc 240  
tcactgatgg tgcctttgga g 261

<210> 2558  
<211> 254  
<212> DNA  
<213> Glycine max

<400> 2558

ctttataccc cccctctctt ttttgcgttc attctgtttt cctgatgaag tctttcccta 60  
gccaatggcc accgatcggt tgaccgcggg tcacagtctc cgtgagaggc ttgatgaaac 120  
cctcactgcc aacaggaatg aaattttggc ctttctgtca aggatcgaag ccaagggcaa 180  
gggcatcctg caacaccacc aggtcattgc tgagtttgag gaaatccctg aggagaacag 240  
acagaagctc actg 254

<210> 2559  
<211> 243  
<212> DNA  
<213> Glycine max

<400> 2559

gcgttcattc tgttttcctg ttgaagtctt tccgtagcca atggccaccg atcgtttgac 60



ccgggttcac agtctccgtg agaggettga tgaaaccctc actgccaaca ggaatgaaat 120  
 tttggccctt ctgtcaagga tcgaagccaa gggcaagggc atcctgcaac accaccaggt 180  
 cattgctgag tttgaggaaa tccctgagga gaacagacag aagctcactg atgggtgcctt 240  
 tgg 243

<210> 2560  
 <211> 271  
 <212> DNA  
 <213> Glycine max

<400> 2560

ctttacaccc ccctctctat tttgcgttca ttctgttttc cagttgaagt ctttccctag 60  
 ccaatggcca ctgatcggtt gacccgggtt cacagtctcc gtgagaggct tgatgaaacc 120  
 ctactgccca acaggaacga aattttggcc cttctgtcaa ggatcgaagc taagggcaag 180  
 gggatcctgc aacaccacca ggtcattgct gagtttgagg aaatccctga ggagaacagg 240  
 cagaagctta ctgatggtgc ctttgagaa g 271

<210> 2561  
 <211> 255  
 <212> DNA  
 <213> Glycine max

<400> 2561

ctctattttg cggttcattct gttttccagt tgaagtcttt ccatagccaa tggccactga 60  
 tcgtttgacc cgggttcaca gtctccgtga gaggttgat gaaaccctca ctgccaacag 120  
 gaacgaaatt ttggcccttc tgtcaaggat cgaagctaag ggcaagggga tcctgcaaca 180  
 ccagcaggtc attgctgagt ttgaggaaat ccctgaggag aacaggcaga agcttactga 240  
 tgggtgccttt ggaga 255

<210> 2562  
 <211> 233  
 <212> DNA  
 <213> Glycine max

<400> 2562

ttttgcgttc attctgtttt cctggttgaag tctttcccta gccaatggcc accgatcggt 60

tgacccgggt tcacagtctc cgtgagaggc ttgatgaaac cctcactgcc aacaggaatg 120  
aaatTTTggc ccttctgtca aggatcgaag ccaagggcaa gggcatcctg caacaccacc 180  
aggtcattgc tgagtttgag gaaatccctg aggagaacag acagaagctc act 233

<210> 2563  
<211> 262  
<212> DNA  
<213> Glycine max

<400> 2563

gttcattctg ttttcttgaa gtctttccct agccaatggc cactgatcgt ttgacccggg 60  
ttcacagtct ccgtgagagg cttgatgaaa ccctcactgc caacaggaac gaaatTTTgg 120  
cccttctgtc aaggTCgaag ctaagggcaa ggggatcctg caacaccacc aggtcattgc 180  
tgagtttgag gaaatccctg aggagaacag gcagaagctt actgatggTg cctttggaga 240  
agtcttgaga tctacacagg aa 262

<210> 2564  
<211> 237  
<212> DNA  
<213> Glycine max

<400> 2564

gcgttcattc tgttttccctg ttgaagtctt tccctagcca atggccatcg atcgTTtgac 60  
ccgggttcac agtctccgtg agaggcttga tgaaaccctc actgccaaca ggaatgaaat 120  
tttggccctt ctgtcaagga tcgaagccaa gggcaagggc atcctgcaac accaccaggt 180  
cattgctgag tttgaggaaa tccctgagga gaacagacag aagctcactg atggTgc 237

<210> 2565  
<211> 268  
<212> DNA  
<213> Glycine max

<400> 2565

ctttacaccc ccctctctat tttgcgttca ttctgttttc cagttgaagt ctttccttag 60  
ccaatggcca ctgatcgttt gacccgggtt cacagtctcc gtgagaggct tgatgaaacc 120  
ctcactgcc aacaggacgaa attttggccc ttctgtcaag gatcgaagct aagggcaagg 180

ggatcctgca acaccaccag gtcattgctg agtttgagga aatccctgag gagaacaggc 240  
agaagcttac tgatggtgcc tttggaga 268

<210> 2566  
<211> 268  
<212> DNA  
<213> Glycine max

<220>  
<221> unsure  
<222> (1)..(268)  
<223> unsure at all n locations

<400> 2566

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ccctagccaa tggccactga tcgtttgacc cgggttcaca gtctccgtga gaggcttgat 120  
gaaaccctca ctgccaacag gaacgaaatt ttggcccttc tgtcaaggat cgaagctaag 180  
ggcaagggga tcttgcaaca ccaccaggtc attgctgagt ttgagganat ccctgaggag 240  
aacaggcaga agcttnctga tggngnct 268

<210> 2567  
<211> 237  
<212> DNA  
<213> Glycine max

<400> 2567

cgttcattct gttttcctgt tgaagtcttt ccctagccaa tggccaccga tcgtttgacc 60  
cgggttcaca gtctccgtga gaggcttgat gaaaccctca ctgccaacag gaatgaaatt 120  
ttggcccttc tgtcaaggat cgaagccaag ggcaagggca tcttgcaaca ccaccaggtc 180  
attgctgagt ttgaggaaat ccctgaggag aacagacaga agctcactga tgggtgcc 237

<210> 2568  
<211> 261  
<212> DNA  
<213> Glycine max

<400> 2568

cttctcttta cccccccctc tctatatttg gttcattctg tcttcttgaa gtctttccct 60  
agccaatggc cactgatcgt ttgaccggg ttcacagtct ccgtcagagg cttgatgaaa 120

ccctcactgc caacaggaac gaaattttgg cccttctgtc aaggatcgaa gctaagggca 180  
acgggatcctt gcaacaccac caggtcattg ctgagtttga ggaaatccct gaggagaaca 240  
ggcagaagct tactgatggt g 261

<210> 2569  
<211> 263  
<212> DNA  
<213> Glycine max

<400> 2569

acacccccct ctctattttg cgttcattct gttttacagt tgaagtcttt ccatagccaa 60  
tggccactga tcgtttgacc cgggttcaca gtctccgtga gaggcttgat gaaaccctca 120  
ctgccaacag gaacgaaatt ttggcccttc tgtcaaggat cgaagctaag ggcaagggga 180  
tcttgcaaca ccaccaggtc attgctgagt ttgaggaaat cctgaggaga acaggcagag 240  
cttactgatg gtgctatgga gaa 263

<210> 2570  
<211> 229  
<212> DNA  
<213> Glycine max

<400> 2570

ctgttttcca gttgaagtct ttccctagcc aatggccact gatcgtttga cccgggttca 60  
cagtctccgt gagaggcttg atgaaaccct cactgccaac aggaacgaaa ttttgccct 120  
tctgtcaagg atcgaagcta agggcaaggg gatcctgcaa caccaccagg tcattgctga 180  
gtttgaggaa atccctgagg agaacaggca gaagcttact gatggtgcc 229

<210> 2571  
<211> 265  
<212> DNA  
<213> Glycine max

<220>  
<221> unsure  
<222> (1)..(265)  
<223> unsure at all n locations  
<400> 2571

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 cctagccaat ggccactcga tcgtttgacn cggggtcaca gtctccgtga gaggcttgat 120  
 gaaaccctca ctgccaacag gaacgaaatt ttggcccttc tgtcaaggat cgaagctaag 180  
 ggcaagggga tcctgcaaca ccaccaggtc attgctgagt ttgaggaaat ccctgaggag 240  
 aacaggcaga agcttactga tgggtg 265

<210> 2572  
 <211> 264  
 <212> DNA  
 <213> Glycine max

<400> 2572

gttcattctg ttttcttgaa gtctttccct agccaatggc cactgatcgt ttgacccggg 60  
 ttcacagtct ccgtgagacg cttgatgaaa ccctcactgc caacaggaac gaaattttgg 120  
 cccttctgtc aaggatcgaa gctaagggca aggggatcct gcaacaccac caggtcattg 180  
 ctgagtttga ggaaatccct gaggagaaca ggcagaagct tactgatggg gcctttggag 240  
 aagtcttgag atctacacag gaag 264

<210> 2573  
 <211> 252  
 <212> DNA  
 <213> Glycine max

<400> 2573

ctttataccc cccctctctt tttttgcgtt cattctgttt tcctgttgaa gtctttccct 60  
 agccaatggc caccgatcgt ttgacccggg ttcacagtct ccgtgagagg cttgatgaaa 120  
 ccctcactgc caacaggaat gaaattttgg cccttctgtc aaggatcgaa gccaaaggga 180  
 agggcatcct gcaacaccac caggtcattg ctgagtttga ggaaatccct gaggagaaca 240  
 gacagaagct ca 252

<210> 2574  
 <211> 242  
 <212> DNA  
 <213> Glycine max

<400> 2574

ctctttatac cccccctctc ttttttgcg t cattctggt ttctgttga agtctttccc 60  
tagcaaattg ccaccgatcg tttgacccgg gttcacagtc tccgtgagag gcttgatgaa 120  
accctcactg ccaacaggaa tgaaattttg ggccttctgt caaagatcga agccaagggc 180  
caaggcatcc tgcaacacca ccaggtcatt gctgaatttg aggaaatccc tgaggagaac 240  
ag 242

<210> 2575  
<211> 269  
<212> DNA  
<213> Glycine max

<400> 2575

tctttatata ccccggcgct tgtgtgcggt cattctgttt tgctgttgaa gtcggtccta 60  
gccagtgggc accgatcggt tgacccgggt tcacagtctc cgtgagaggc ttgatgaaac 120  
cctcactgcc aacaggaatg aaattttggc ccttctgtca aggatcgaag ccaagggcaa 180  
gggcacgtg caacaccacc aggtcattgc tgagtttgag gaaatccctg atgagaacag 240  
acagaagctc actgatggtg cctttggag 269

<210> 2576  
<211> 255  
<212> DNA  
<213> Glycine max

<400> 2576

attcggctcg agcttctctt tacaccccc tctctatttt gcgttcactc tgtattccag 60  
ttgacgtctt tccctagcca atggccactg atcgcttgac ccgggttcac agtctccgtg 120  
agaggcttga tgataccctc actgccaaca ggatcgaaat tttggccctt ctgtcaagga 180  
tcgaagctaa gggcaagggg atcctgcaac accaccagggt cattgctgag tttgaggaaa 240  
tccctgagga gaaca 255

<210> 2577  
<211> 142  
<212> DNA  
<213> Glycine max

<400> 2577

acccccctct ctatcttgcg ttcattctgt tttccagttg aagtctttcc ctagccaatg 60  
 gccactgatc gtttgaccgc ggttcacagt ctccgtgaga ggcttgatga aaccctcact 120  
 gccaacagga acgaaatttt gg 142

<210> 2578  
 <211> 158  
 <212> DNA  
 <213> Glycine max  
 <400> 2578

ctttacaccc cctctctatt ttgcgttcac tctgttttcc agttgaagtc tttccctagc 60  
 caatggccac tgatcgtttg acccggttc acagtctccg tgagaggctt gatgaaaccc 120  
 tcaactgcaa caggaacgaa attttggccc ttctgtca 158

<210> 2579  
 <211> 132  
 <212> DNA  
 <213> Glycine max  
 <400> 2579

cttctcttta cacccectc tctattttgc gttcattctg tttaccagtt gaagtcttcc 60  
 cctagccaat ggccactgat cgtttgaccc gggttcacag tctccgtgag aggcttgatg 120  
 aaaccctcac tg 132

<210> 2580  
 <211> 259  
 <212> DNA  
 <213> Glycine max  
 <400> 2580

gtgcccttga aaatgagatg ctccctcgga tcaagaaaca gggacttgat ttcactccaa 60  
 gaattctaata agttaccagg ttaataacctg atgcaaaggg gacaacatgc aaccagcggc 120  
 tagaaagagt cagtggact gaccatactc atattttgcg agttccattc agatcagagt 180  
 caggaactct ccgtaaatgg atttcaaggt ttgatgtgtg gccttatcta gagacttatg 240  
 cagaggatgt tgccagtga 259

<210> 2581

<211> 221  
 <212> DNA  
 <213> Glycine max

<400> 2581

tgatttcact ccaagaattc taatagttac caggttaata cctgatgcaa aggggacaac 60  
 atgcaaccag cggctagaaa gagtcagtgg tactgaccat actcatatTTt tgcgagttcc 120  
 attcagatca gagtcaggaa ctctccgtaa atggatttca aggtttgatg tgtggcctta 180  
 tctagagact tatgcagagg atgttgccag tgaaattgct g 221

<210> 2582  
 <211> 437  
 <212> DNA  
 <213> Glycine max

<400> 2582

ctctcatgct tttttccact tgcaaacttc aaattcactc tgacagtttt tgcagctaag 60  
 taagaagaac ttaacagaca tataaacata gtgatcgTTa tgtctacgca accaaagctt 120  
 ggtcggattc ccagtatcag agaccgagtt gaagacactc tctctgctca ccgtaacgaa 180  
 ctcattttctc tcctctccag gtatgtggct caagggagag ggattttgca accccataat 240  
 ttgattgatg aacttgacaa catccctggc gatgatcaag caatagtgga tcttaaaaat 300  
 ggtccctttg gtgaaatcgt caagtctgca aaggaagcca tagttttgcc tccttttgtg 360  
 gcaatagcag ttcgtccaag acctggtggt tgggaatatg tccgtgTTa tgtctctgag 420  
 ctcagcgtgg agcaatt 437

<210> 2583  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<400> 2583

cacgcgtcag ggataccttg cagcccttgc ttgatttccT ccgagctcac aaatacaagg 60  
 gccatgctct gatgttaaT gatagaatac aaaccatttc caaacttcag tctgcattgg 120  
 ccaaggctga ggattatctc totaagcttg cacatgatac actctattca gagtttgaat 180  
 atgtattgca aggaatgggt tttgagagag gttggggTga tactgctgaa cgggtattgg 240



aaatgatgca tctgctattg gatattcttc aggctcctga tccttctaca ctagagactt 300  
 ttcttgggag agtaccaatg gtattcaatg ttgctatatt atctcctcat ggctactttg 360  
 gacaagccaa tgtcttgggt ttgcctgaaa ctgg 394

<210> 2584  
 <211> 391  
 <212> DNA  
 <213> Glycine max  
 <400> 2584

tacggctgcg agaagacgac agaaggggga agagaaggcc gagatgaaga agatgtacgg 60  
 cctgatcgag acctacaagt tgaacgggca attcagatgg atttcatctc agatgaaccg 120  
 tgtgaggaac ggagagctgt accgtgtgat ctgcgacacc aaggagctt tcgtgcagcc 180  
 ggctatatac gaggcttttg gtttgacagt ggttgaggcc atgacttgtg ggttgccaac 240  
 attcgccaca tgcaatgggtg gtcttgctga gatcattgtg catggcaagt ctggcttcca 300  
 cattgaccct taccatgggtg accgtgctgc tgatctcctt gttgacttct ttgagaagtg 360  
 caagcttgac ccaaccact gggaaacaat c 391

<210> 2585  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(398)  
 <223> unsure at all n locations  
 <400> 2585

cccacgcgtc cgcccacgcg tccgcccacg cgtccgcccc cgcgtccgcg gctgcgagaa 60  
 gacgacagaa ggggtacggc ctgatcgaga cccacaagtt gaacggccaa ttcagatgga 120  
 tttcatcgca gatgaaccgt gtgaggaatg gagagctcta ccgcgtgac tcgcgacacca 180  
 ggggtgcttt cgtgcagcct gctgtatacg aggcttttgg tttgacagtg gttgaggcca 240  
 tgacttgagg cttgccaaca ttcgccacat gcaatgggtg tcctgctgag atcattgtgc 300  
 acggcaagtc tggttccac attgaccctt accatgggtga ccgtgctgct gatctccttg 360  
 ttgacttctt tgagaagtgc angcttganc caactcac 398

<210> 2586  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(415)  
 <223> unsure at all n locations

<400> 2586

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gttcgtgcct tggagaatga gatgctcaac cgcatacaaga agcaaggcct tgatatcacc 60
cctcgtattc tcattattac tcgtcttctc cctgatgcag taggaactac ctgtggccaa 120
cgtctagaga gggatatatga tactgaatat tgtgacattc tccgagttcc tttcagaacc 180
gaaaagggaa ttgttcgcaa atggatctca agattcgaag tctggccata cctagagact 240
tacactgagg atgttgccct tgaacttgcc aaggagttgc aagccaagcc agatctgac 300
gttggaact acagtgatgg aaacattgtt gcctctttgt tagcacatan attaggagta 360
actcagtgtg ccattgctca tgctctagaa aagaccaagt accctgagtc tgaca 415
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<210> 2587  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<400> 2587

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gaaatatcat ttctcatgcc aatttactgc tgatcttttt gcaatgaacc acacagactt 60
tatcatcacc agcaccttcc aagagattgc tggaagcaag gacactgttg gacagtatga 120
gagtcacact gccttcaccc ttccaggact ttaccgtgtt gttcacggta ttgatccatt 180
tgatccaaag ttcaacattg tctctcccg tgcagacatg ggtatatact tccatacac 240
tgaaactgag cgtaggttaa cagaattcca ctctgacatt gaagagcttc tttacagctc 300
agtggagaat gaggaacaca tatgcgtatt gaaggaccgc aacaaaccaa taatcttcac 360
catggcaagg cttgaccgtg tgaagaacaa cacggggcct gtc 403
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<210> 2588  
 <211> 417  
 <212> DNA

<213> Glycine max

<400> 2588

acgtacggct gcgagaagac gacagaaggg gatggaaaca ttgttgctc tttgttagca 60  
cataaattag gagtaactca gtgtaccatt gctcatgctc tagaaaagac caagtaccct 120  
gagtctgaca ttacttgga aaaatttgaa gagaaatata acttctcatg ccaatttact 180  
gctgatcttt ttgcaatgaa ccacacagac tttatcatca ccagcacctt ccaagagatt 240  
gctggaagca aggacactgt tggacagtat gagagtcaca ctgccttcac ccttccagga 300  
ctctaccgtg ttgttcacgg tattgatccc tttgatccaa agttcaacat cgtctcttcc 360  
ggttgccgac atgagcataa acttcgcata cactgaaact gagcgtaggt taacaga 417

<210> 2589

<211> 455

<212> DNA

<213> Glycine max

<400> 2589

caggtacacg tggaagattt attccgaaag gcttatgact ttggcgggag tttatagttt 60  
ctggaaatgc gtttccaaat tagagaggcg tgaaactcga cgatatcttg agatgttcta 120  
tatacctcaag ttccgtgatt tggcaaattc tgttccgcta gctaaggatg atgcaagtta 180  
actagctata taatttcacc aaaggcttga cagcagacat aataagagtc atttatgtaa 240  
atataatagt ctgcttctcg tgttttgaaa tctagtgagg cgacctagag gagtttcatg 300  
gaagacttgt cttgtctatg ttaacttcga ttatgtaaga gatggcgagc actggttgtt 360  
gaatttggaat gtctcttggt ttcgtttgat tagtagtcat caatgatata gacctggaaa 420  
ttacctgtga cttgaggatg ttatccttac tgatg 455

<210> 2590

<211> 381

<212> DNA

<213> Glycine max

<400> 2590

gttcattctg ttttccagtt gaagtctttc cctagccaat ggccactgat cgtttgaccc 60  
gggttcacag tctccgtgag aggcttgatg aaaccctcac tgccaacagg aacgaaattt 120

tggcccttct gtcaaggatc gaagctaagg gcaaggggat cctgcaacac caccaggtca 180  
 ttgctgagtt tgaggaaatc cctgaggaga acaggcagaa gcttactgat ggtgcctttg 240  
 gagaagtctt gagatctaca caggaagcca tagttttgcc accatggggtt gctctggctg 300  
 ttcgtccaag gcctgggtgtg tgggagtacc tgaaagtgaa tgtgcacgct cttgttggtg 360  
 aggagttgca acctgctgag t 381

<210> 2591  
 <211> 276  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(276)  
 <223> unsure at all n locations

<400> 2591

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 atggaatggg gaaacttttg gtcattctcat ttaccaagaa catcttatga tattgattta 120  
 gactctgaaa gccctaattc aaatgatcag ggttttgaga aaatgatatc tggaatgtat 180  
 cttggtgaca tcgtgaggag agtcatncta aggatgncgc tagagncnnt ntnnctngnn 240  
 ccnattcttc caaactttca agccnntatg ctgagg 276

<210> 2592  
 <211> 153  
 <212> DNA  
 <213> Glycine max

<400> 2592

gttgaagaag ccctactctc tcgacgcctc tttcctctcc gacatcgaga acgacccctt 60  
 cgagaacctg caagagactc acgatatctt cgtcaaccag atgggtatca agcccattgg 120  
 gcttaagtta gagtttccgg ggggttttcg aaa 153

<210> 2593  
 <211> 223  
 <212> DNA  
 <213> Glycine max

<400> 2593

ccgggcttcc catgataccc agctatgttg aaaatcttcc cactgggaat gagaaaggg 60  
 tgttttatgc cttggatctc ggaggaacca acttccgtgt gctgaggggtg cagttgggtg 120  
 gcaaagatga gcgtgtcatt gccaccgagt ttgatcaagt ttccatacct catcaactca 180  
 tgtttgctac atctcaggag ctgtttgatt tcattgcttc ggg 223

<210> 2594  
 <211> 257  
 <212> DNA  
 <213> Glycine max  
 <400> 2594

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 ataatctccc ttctggggat gagaaaggac tcttttatgc attagacctt ggtggcacia 120  
 acttccgaac ccttcgcgtg catttaggtg ggaaggagaa aggtgttgctc aaaatagagt 180  
 ctgatgaagt ttccattcct cctcatttga tgactgggtc ttcacaagaa ttatttgatt 240  
 ttatagcatc taaacta 257

<210> 2595  
 <211> 246  
 <212> DNA  
 <213> Glycine max  
 <400> 2595

atttgatgac tggttcttca caagaattat ttgattttat agcatctaaa ctagcaaaat 60  
 tcgttagttc tgagcctgaa gagttacacc ctccccctgg cagacaaagg gaattgggtt 120  
 ttaccttctc atttccagtg aggcaaacat caattgcac tgggaatata ataaagtgga 180  
 ctaaagggtt caatcttgag gatgcggttg gagaagatgt ggtgggtgaa ctgaccaagt 240  
 ccttag 246

<210> 2596  
 <211> 262  
 <212> DNA  
 <213> Glycine max  
 <400> 2596

gcagattcta caatcaggat gtcattgctg ctgtgattct tggtagtggg acaaatgcag 60

catatgtaga acgagcacat gctattccaa aatggcatgg gcttatacca aaatcaggag 120  
 atatggttat aaacatggag tgggggtattt cegatcatca catcttcctc taacagaata 180  
 tgatctagct ccggatgctc agagcttaaa ccctggagaa cagatttttg agaaattgat 240  
 ttctggcatg tatttggggg aa 262

<210> 2597  
 <211> 254  
 <212> DNA  
 <213> Glycine max

<400> 2597

atcggttggg aggctgaggc aggtggtgga tgctatggcc gttgagatgc acgctgggtt 60  
 ggcatacagaa ggtggttcca agctcaaaat gcttctcaca tatgttcata atctccctaa 120  
 tgggactgag aaaggaacat attatgcact agatcttggg ggtactaatt ttcgggtttt 180  
 gcgggttcat ttgcatggtc aacaatcttc tgttttggaa catgaagtag agcgacaccc 240  
 attcctcaaa atct 254

<210> 2598  
 <211> 267  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(267)  
 <223> unsure at all n locations

<400> 2598

ctcccatcag aggacaaagc ttccgacttt gcgggattcg ttcgtatttg tttcagtgct 60  
 gtgatgggga aggtcgcggt gggagctgcc gttgtctgcg ccgccgccgt atgcgctgcg 120  
 gcggcgctgg tgggtgcgcca ccgcatgatt cgttcccgga agtggagtcg cgccatggcg 180  
 atactgaagg agtttgagga gaagtgtggc accccaattg tgaagctaag acaagtgcgc 240  
 tgatgccatg gatnttgaga tcacgcg 267

<210> 2599  
 <211> 252  
 <212> DNA

<213> Glycine max  
 <400> 2599  
 gttacaccct ccccttgga gacaaaggga actgggtttt acattctcat ttccagtga 60  
 gcaaacatcc atagcatctg ggactctaataaagtggaact aaagggtttca atattgagga 120  
 tgcgggttga gaagatgtgg tgggtggact aaccaagtcc ttagaaaaaa ttggtctgga 180  
 tatgcgtggt gcagctctag ttaatgacac agttggaact gtggctagag ctagattcag 240  
 caatcaggat gt 252

<210> 2600  
 <211> 250  
 <212> DNA  
 <213> Glycine max  
 <400> 2600  
 tgaagatgcg gttggtgaag atgtggtggg agaactaacc aagtccatgg aaaaaattgg 60  
 cctggatatg cgcgttgctg ctctagtcag tctcactctc ctctcttttg gatttcttta 120  
 ttttttatag ccgatttga gcatgatggg ttccagtttg tgtctgacag aaatttggag 180  
 ttataagggtt aatgatacca ttggaacatt agctggaggc agattctaca atcaggatgt 240  
 cattgctgct 250

<210> 2601  
 <211> 252  
 <212> DNA  
 <213> Glycine max  
 <220>  
 <221> unsure  
 <222> (1)..(252)  
 <223> unsure at all n locations  
 <400> 2601  
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 gatattgttg ctaatcgggg agccccctt tctgctgctg gtatttttgg catcctcaag 120  
 aaaataggaa gagacacagt aaaggacggg aagaaatcag tagtagcact ggatggagga 180  
 ttgtttgaac actatactaa ttcagagttc cttggagagt acaaaaagggt ttttgggnaa 240  
 cncccccnac ca 252

<210> 2602  
 <211> 268  
 <212> DNA  
 <213> Glycine max

<400> 2602

cgataatctc ccaactgggg atgaggaagg cctctattat gcattggatc ttggcggcac 60  
 aaacttccgt gtccttcgtg tacatttagg ggggaaagac aaaggtgtta tcggccagga 120  
 gtttgaagaa gtttcaattc ctccaaattt gatgactggc tcttcagatg cattgttcga 180  
 ttttatagca gcaggtcctg caaagtttgt tgggtcagaa ccctgaaggt ttcattctcc 240  
 cctgggaaga caagaggact gggtttac 268

<210> 2603  
 <211> 268  
 <212> DNA  
 <213> Glycine max

<400> 2603

attttgggca tccttaagaa aataggaaga gacacgggta aggttgggga gaagcaaaag 60  
 tcagtgatag ctttggatgg gggattgttt gaacactaca ccaaatttag agaatgcttg 120  
 gagggtagcc tgaaggaatt gctgggagat gaggctgctg agaccattgt cattgagcat 180  
 gctaattgat gctctggcat tgggtgcagc ctctcagcag cttctcactc ccaatatttg 240  
 ggagtggagg agtcttaaatt tttattgc 268

<210> 2604  
 <211> 224  
 <212> DNA  
 <213> Glycine max

<400> 2604

ctcaaacaca tcccttaaaa tgaggaagat cgttgttgaa ctgtgtgaca ttgttgctac 60  
 tcgaggagct cggcttgctg ctgctggat tttgggcatc cttaagaaaa taggaagaga 120  
 cacagttaag gttggggaga agcaaaagtc agtgatagcg ttggatgggg ggttgtttga 180  
 acactacacc aaatttagag aatgcttgga gactgcactg aagg 224



<210> 2605  
 <211> 265  
 <212> DNA  
 <213> Glycine max  
  
 <400> 2605  
  
 cgatctgcac gctgggttgg catcagaagg tggttctaaa ctcaaaatgc ttataacatt 60  
 tgttcataat ctccctaattg ggactgagaa aggaacatat tatgcactag atcttggggg 120  
 taaaaatttt agggttttgc gggttcattt gcatgggtcaa caatcgtctg ttttgggaaca 180  
 tgaagtagag cgacagccca ttcctcaaca tctaatagacc agcacaagtg aggatctctt 240  
 tgatttcctt gcttcttcat taaag 265

<210> 2606  
 <211> 266  
 <212> DNA  
 <213> Glycine max  
  
 <220>  
 <221> unsure  
 <222> (1)..(266)  
 <223> unsure at all n locations  
  
 <400> 2606  
  
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 attggaacat tagctggagg cagattctac aatcaggatg tcgttgctgc tgtgattctt 120  
 ggtactggga caaatgcagc atatgtagaa cgtgcacatg ctattccaaa atggcatggc 180  
 cttataccnn aatcaggaga tatggttata aacatggagt ggggtaattt ccgatcatca 240  
 catcttcttc taacagaata tgatct 266

<210> 2607  
 <211> 261  
 <212> DNA  
 <213> Glycine max  
  
 <400> 2607  
  
 gtttggaaaa tctgtccgc agacactatc tacacctttc atactcggga cctcagatct 60  
 atgtgccatg caacaggact gttctggcga tttacatgca gttgggtctc tcctctacga 120  
 taaagcaggg gttgaatcca atttaagtga aagagaaaca gttttggagg tttgtgagac 180

tattgtaaag cgaggcggga gcttagctgg tgcaggaata gtggggattc tacaaaaaat 240  
 ggaagaggac cagagaggtc t 261

<210> 2608  
 <211> 268  
 <212> DNA  
 <213> Glycine max

<400> 2608

tctcgagccg ctcgagccgc ggctcgagaa ttgtagacg agtgcacgct ggaaatggct 60  
 gaagacgggtg acctgttttg aaaatctatc ccgcagacac tatctacacc tttcatactc 120  
 gggacctcag atctatgtgc catgcaacag gactgttctg gcgatttaca tgcagttggg 180  
 tctctcctct acgataaagc aggggttgaa tccaatttaa gtgaaagaga aacagttttg 240  
 gaggtttgtg agactattgt aaagcgag 268

<210> 2609  
 <211> 261  
 <212> DNA  
 <213> Glycine max

<400> 2609

caagaaaata ggaagagaca cagtaaagga cgggaagaaa tcagtagtag cactggatgg 60  
 aggattgttt gaacactata ctaaattcag aagttccttg gagagtacac taaaggagtt 120  
 gttgggagat gaggcagctg agacaattgg cattgagcag tctaatagatg gctctggaat 180  
 tggagcagcc ctctggcag cttctcactc ccagtatttg gaagtgcagg agtcctgaag 240  
 atgtgggttaa tgtcaaggta a 261

<210> 2610  
 <211> 264  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(264)  
 <223> unsure at all n locations

<400> 2610

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gaagttcctt ggagagtaca ctaaaggagt tgttgggcnt gaggcagctg ngacaattgg 120  
cattgagcag tntaatgatg gctncggaat tggagcagcc ctcttggcag cttctcactc 180  
ccagtatttg gaagtgcagg agtcctgaag atgtggttta atgncanggt aaatcagtgt 240  
aacatagttt cattttttga tacc 264

<210> 2611  
<211> 247  
<212> DNA  
<213> Glycine max

<400> 2611

cccaaattga aagttccttt catacttagg acgcctgaca tgtcagccat gcaccatgac 60  
acaagttctg atctgaaagt ggttggaac aagttaaagg atatattaga gatctcaaac 120  
acatccttaa aatgaggaag atcgttggtg aactgtgtga cattgttgct actcgcgag 180  
ctcggttgct tgctgctggt attttgggca tccttaagaa aataggaaga gacacagtta 240  
aggttgg 247

<210> 2612  
<211> 247  
<212> DNA  
<213> Glycine max

<400> 2612

gaagttgtaa ggagagcttt attgaagatg gccgaagaag ctgacttttt tggcgatact 60  
gtgcccccca aattgaaagt tcctttcata cttaggacgc ctgacatgtc agccatgcac 120  
catgacacaa gttctgatct gcaagtgggt ggaaacaagt taaaggatat attagagatc 180  
tcaaacacat cccttaaaat gaggacgatc gttgttgaac tgtgtgacat tgttgctact 240  
cgcgag 247

<210> 2613  
<211> 278  
<212> DNA  
<213> Glycine max

<400> 2613

cggctcgagt tcacagattt ttgagaaatt gatttctggc atgtatttgg gggaaattgt 60

aaggagagct ttatttaaga tggccgaaga agctgatttt tttggagata ctgttcccc 120  
caaattgaaa gttcctttca tacttaggac gctgacatg tcagccatgc accatgacac 180  
aagttctgat ctgaaagtag ttggaacaa attaaaggat atattagaga tctctaacac 240  
atccctaaaa atgaggaaga ttgttgttg actgtgtg 278

<210> 2614  
<211> 249  
<212> DNA  
<213> Glycine max  
<400> 2614

tgcccaaat accagcagca gcaagccgag ctccgcgagt agcaacaatg tcacacagtt 60  
caacaacgat cttcctcatt ttaagggatg tgtttgagat ctctaataa tcctttaact 120  
tgtttccaac cactttcaga tcagaacttg tgtcatggtg catggctgac atgtccaggc 180  
gtcctaaaga aaattatgtc agaactcaa aagctctatt tcaacaaaag gtaatgtgtt 240  
caaatgaag 249

<210> 2615  
<211> 255  
<212> DNA  
<213> Glycine max  
<400> 2615

ggtcgcgtgg tggctattgt gaaagagttt gaggagcagt gtaggacccc aattgggaag 60  
ctgagacagg ttgctgacgc catggacgtt gagatgcacg cgggtcttgc ttctgaaggt 120  
ggcagcaagc tcaagatgtt gatcacttat gttgataatc tcccttctgg ggatgagaaa 180  
ggactctttt atgcattaga ccttggtggc acaaacttcc gaacccttcg cgtgcattta 240  
ggtgggaagg agaaa 255

<210> 2616  
<211> 248  
<212> DNA  
<213> Glycine max  
<400> 2616

gcggcgcggt gtgctgcggt ggcgctggtg gtgcgcaccg atgatgagct ccggaaagtg 60

gggtcgctg gtggctattg tgaaagagtt tgaggagcag tgtaggaccc caactgggaa 120  
gctgagacag gttgctgacg ccatggacgt tgagatgcac gcgggtcttg cttctgaagg 180  
tggcagcaag ctcaagatgt tgatcactta tgttgataat ctcccttctg gggatgagaa 240  
aggatctt 248

<210> 2617  
<211> 263  
<212> DNA  
<213> Glycine max

<220>  
<221> unsure  
<222> (1)..(263)  
<223> unsure at all n locations

<400> 2617

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tgtaggaccc caattgggaa gctgagacag gttgctgacg ccatggacgt tgagatgcac 120  
gcgggtactg cttctgaagg tggcagcaag ctcaagatgt tgatcactta tgttgataat 180  
ctccctctgg ggatgagaaa ggactcttta tgcnttagac ctggtggcac aaacttccga 240  
accctcgctg cattagtggg aag 263

<210> 2618  
<211> 143  
<212> DNA  
<213> Glycine max

<400> 2618

cagtgttgga cccaatttc gaagctgaga caggttgctg atgccttgga cgttgagatg 60  
cacgctggtc ttgcttctga aggtggatgt aagctcaaga tgttgatcac ttatgttgat 120  
aatctccctt ctggggatga gaa 143

<210> 2619  
<211> 279  
<212> DNA  
<213> Glycine max

<220>  
<221> unsure

<222> (1)..(279)  
 <223> unsure at all n locations  
 <400> 2619  
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 angagctccg gaaagtgggg tcgctgtgtg gctattgtga aacagtttga ggagcagtgt 120  
 aggaccccaa ttgggaagct acgacagttg ctgacgccat ggacgttgag atgcacgcgg 180  
 gtcttgcttc tgaaggtggc agcaagctca agatgttgat cacttatgtt gataatctcc 240  
 cttctgggga tgagaaagga ctcttttatg cattagacc 279

<210> 2620  
 <211> 289  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(289)  
 <223> unsure at all n locations

<400> 2620  
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 ttngagaaag atgtngtggg tgaactgncc aagtccttag naaaaattgg tctggatatg 120  
 catgttgcag ctctagttaa tgacacagtt ggaacagtgg ctagagcaag attcagcaat 180  
 caggatgtca ttgctggant gantcttggg actgggacaa atgcagctta tgtagagtgt 240  
 gcacatgcaa ttccacaatg gcatggtctt ctacccaaat caggagacc 289

<210> 2621  
 <211> 264  
 <212> DNA  
 <213> Glycine max

<400> 2621  
 actcgagccg attcggtctg agtgaggatg cggttggaga agatgtactg ggtggactaa 60  
 ccacagtctt agaaaaaatt ggtctggata tgcgtgttgc agctctagtt aatgacacag 120  
 ttggaactgt ggctagagct agattcagca atcaggatgt cattgctgga gtgattcttg 180  
 gtacagggac aaatgcagct tatgtagagt gtgcacatgc aattccaaaa tggcaaggtc 240

ttctaccaaa atcaggagag atgg 264

<210> 2622  
 <211> 270  
 <212> DNA  
 <213> Glycine max

<400> 2622

gagaacagat ttttgagaag ataatttctg gtatgtatatt gggtgaaatt gtaaggagag 60  
 ttttgttgaa gttggctgaa gaagttgact tctttggaga tactgttcct ccaaaattga 120  
 gaattccttt cgtacttagg acacctgaca tgtctgcaat acatcaagat acatcttcag 180  
 atctgaaggt ggttggaac aaattgaagg atatattaga gatcaataac acatccctga 240  
 aaatgaggaa gattgttgtg gaactctgtg 270

<210> 2623  
 <211> 273  
 <212> DNA  
 <213> Glycine max

<400> 2623

atttctggta tgtatttggg tgaaattgta aggagagttt tgttgaagtt ggctgaagaa 60  
 gttgacttct ttggagatac tggtcctcca aaattgagaa ttcctttcgt acttaggaca 120  
 cctgacatgt ctgcaatata tcaagatata tcttcagatc tgaagggtgg tggaaacaaa 180  
 ttgaaggata tattagagat caataacaca tccctgaaaa tgaggaagat tgttgtggaa 240  
 ctctgtgata ttgttgctaa tcggggagcc cgc 273

<210> 2624  
 <211> 267  
 <212> DNA  
 <213> Glycine max

<400> 2624

cagagaggtc tcgtcttttg gaatgggaag agaagtgttg ttgccattga tgggggctta 60  
 tatgaaaatt atcctcaata cagggttat ttgcaagatt cagtcacaga gctgctagga 120  
 acagaaaagt caaacaatgt ggtgatagag cataactaaag atggatctgg aataggagct 180  
 gctctattgg ctgcttcaaa ctccatgtac aaccaagact tatagtccat tatcatgcaa 240

ataaaaaattg aaggaataat ccatttt 267

<210> 2625  
 <211> 280  
 <212> DNA  
 <213> Glycine max

<400> 2625

cagagaggtc tcgtcttttg gaatgggaag agaagtgttg ttgccattga tgggggctta 60  
 tatgaaaatt atcctcaata cagggttat ttgcaagatt cagtcacaga gctgctagga 120  
 acagaaaagt caaacaatgt ggtgatagag catactaaag atggatctgg aataggagct 180  
 gctctattgg ctgcttcaaa ctccatgtac aaccaagact tatagtccat tatcatgcaa 240  
 ataaaaattg aaggaataat ccatttttcc ttttgatat 280

<210> 2626  
 <211> 248  
 <212> DNA  
 <213> Glycine max

<400> 2626

ttgaaaacaa gtccacagta cttttttatg gtggtggggc ttagttgct gtttggtat 60  
 cgtcgattct tgtgagcgcc atcaactctg ttcccttgct tccaagatt atggagttgg 120  
 tggggctagg gtacactgga tggtttgtct accgatacct tctgtttaag tctagcagga 180  
 aggagctagc tacagacatt gagtcactga agaagaaaat tactggaact gaatagagtg 240  
 gtgttagc 248

<210> 2627  
 <211> 234  
 <212> DNA  
 <213> Glycine max

<400> 2627

cttatcttcc ctcaaccact tctcagtgtc ccgaaaatct tctcaccttc agaccagagc 60  
 ttcttcagag gaatcatcct cagtagatgc caatgaggtg ttcacagatt tgaaggaaaa 120  
 gtgggatgct cttgaaaaca agtccacagt acttttttat ggtggtgggg ctttagttgc 180  
 tgtgtggcta tcgtcgattc ttgtgagcgc catcaactct gtcccttgcc ttcc 234



<210> 2628  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<400> 2628

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aatgacacag ttggaacagt ggctagagca agattcagca atcaggatgt cattgctgga 60
gtgatccttg gtacggggac aaatgcacct tatgtagagt gtgcacatgc aattccaaaa 120
tggcatggtc ttctaccaa atcaggagag atggttatta acatggagtg gggtaatttc 180
cgttcctcgc atcttcctct aacagaatat gatcatgctc tagatgcaga gagcttaaac 240
cctggagaac agatTTTTga gaagataatt tctggtatgt atttgggtga aattgtaagg 300
agagttttgt tgaagttggc tgaagaagtt gacttctttg gagatactgt tcctccaaaa 360
ttgagaattc ctttcgtact taggacacct gacatgtctg caatacatca agatacatct 420
tcagatctga 430
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<210> 2629  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(413)  
 <223> unsure at all n locations

<400> 2629

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agcccacgcg tccgtacggc tgcgagaaga cgacagaagg ggttggatgg ggggttgttt 60
gaacactaca ccaaatttag agaatgcttg gagagtgcac tgaaggaatt gctgggagat 120
gaggctgctg agaccattgt cattgagcat gctaataatg gctctggcat tgggtgcagcc 180
ctcctggcag cttctcactc ccaatatTTg ggagtggagg agtcttaa at tttattgcca 240
aacaagggaa agacgtgtaa tactagtttc atTTTTtgca taggtggtag atcaacacat 300
tgaagcaatg gtgccttgca gctggtgact gggggggcat tcattatttt ggtttcagtg 360
tntgtttctc cctcgtttaa gggaatatat caaagatata aacttcacct tga 413
```

<210> 2630  
 <211> 402

<212> DNA  
 <213> Glycine max  
 <400> 2630

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tgctaatacgg ggagcccgcc tttctgctgc tggatattttt ggcacacctca agaaaatagg 60
aagagacaca gtaaaggacg ggaagaaatc agtagtagca ctggatggag gattgtttga 120
acactatact aaattcagaa gttccttgga gactacacta aaggagtgtg tgggagatga 180
ggcagctgag acaattggca ttgagcagtc taatgatggc tctggaattg gagcagccct 240
cctggcagct tctcactccc agtatttgga agtgcaggag tctgaagat gtggtttaat 300
gtcaaggtaa atcagtgtaa cactagtttc atttttttgt atacctacta gatcaacaga 360
ttgaaacaga aaagtcttcg ttactagtcc tagagagctt tt 402
  
```

<210> 2631  
 <211> 445  
 <212> DNA  
 <213> Glycine max  
 <400> 2631

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gtccgtaaag ctgcgagaag acgacagaaa gggacatcac attttctcaa agtaatttat 60
tacttactaa ataaatggcg gcggcagcag cagtgcaggc gctactctca tctatgattc 120
cgaccgccac caacgttaca cgctgctctg ctttgccctc tctgcctcct cgcggcacatca 180
acactaaaac cactttgctc ttatcttccc tcaaccactt ctcagtgtcc cgaaaatctt 240
ctctgcttca gaccagagct tcttcagagg aatcatcctc agtagatgcc aatgaggtgt 300
tcacagatth gaaggaaaag tgggatgctc ttgaaaacaa gtccacagta cttttttatg 360
gtggtggggc ttttaattgct gtttggtat cgctgattcg tgtgagcgcc atcaactctg 420
ttcccttgct tccaaagatt atgga 445
  
```

<210> 2632  
 <211> 400  
 <212> DNA  
 <213> Glycine max  
 <400> 2632

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ggggatagat agagtgatac gcgtcacggt ttcataataa taaaaaaatg gcagcggcgg 60
cggcagtgac ggtgctactc ccacctagga ttccgaccac caccaacggt acccgctgct 120
  
```

ctgctttgcc ttctctccct cctcgcgtct ccaacaccaa aaccactttg ttctcacctt 180  
 ccctcaacaa cttttcagtg tcccgaataat cttctctgct tcagaccata gcttcttcag 240  
 aggaatcatc ctcagtagat gccaatgagg tgttcacaga tttgaaggaa aagtgggatg 300  
 ctcttgaaaa caagtcacac gtacttcttt atggtggaag ggctatagtt gctatttggc 360  
 tatcgtcaat tcttgtgagc gccatcaact cagttccctt 400

<210> 2633  
 <211> 413  
 <212> DNA  
 <213> Glycine max  
 <400> 2633

gatagataga gtgatacaca tcacattttc tcaaagtaag ttattaatta ataaataaat 60  
 ggcggcgggc ggcgcagtg cggtgctact cccacctagg attccgaccg ccaccaacgt 120  
 taccgcgtgc tctgctttgc cttctctgcc tcctcgcggc accaacta aaaccacttt 180  
 gctcttatct tgctcaacc acttctcagt gtcccgaaaa tcttctctgc ttcagaccag 240  
 agcttcttca gaggaatcat cctcagtaga tgccaatgag gtgttcacag atttgaagga 300  
 aaagtgggat gctcttgaaa acaagtcac agtacttttt tatggtggtg gggctttagt 360  
 tgctgtttgg ctatcgtcga ttcttgtgag cgccatcaac tctggtccct tgc 413

<210> 2634  
 <211> 406  
 <212> DNA  
 <213> Glycine max  
 <400> 2634

aaagtccaa attttttggg ttggggatag atagagtggg acgcgtcaca ttttcataat 60  
 aataaaaaaa tggcagcggc ggcggcagtg acggtgctac tccacctag gattccgacc 120  
 accaccaacg ttaccgcgtg ctctgctttg ctttctctcc ctctcgcgt ctccaacacc 180  
 aaaaccactt tgttctcacc ttccctcaac aacttttcag tgtcccgaaa atcttctctg 240  
 cttcagacca gagcttcttc agaggaatca tcctcagtag atgccaatga ggtgttcaca 300  
 gatttgaagg aaaagtggga tgctcttgaa aacaagtcca cagtacttct ttatggtgga 360  
 ggggctatag ttgctatttg gctatcgtca attcttgtga gcgcca 406

<210> 2635  
 <211> 246  
 <212> DNA  
 <213> Glycine max  
  
 <400> 2635  
  
 cggctcgagc ttctacagca ttcttctgct attcaaatac aattttcaaa ccatggcttc 60  
 ctccaccaat gatatactac gaaaaggcaa cggtatatac gtgagcttcg gcgagatgct 120  
 catcgatttc gtccccaccg tctccggcgt gtcccttgcg gaggctcggg ctttcttcaa 180  
 ggcccccggc gtcggcccc gccaacgtcg ccatcgccgt cgcgaggctc ggcggaagg 240  
 cggcgt 246

<210> 2636  
 <211> 259  
 <212> DNA  
 <213> Glycine max  
  
 <400> 2636  
  
 gccatgcaga tcagcacacc tgaaggcaat ggaagttgcc agggaagcag gatgcttgct 60  
 ctcttatgac ccaaacctgc ggctaccctt gtggccctcc gccgaggaag cacgtcagca 120  
 aatactcagc atatgggaca aggctgatgt aatcaaggct agtgatgtgg aactggaatt 180  
 cctaaccgga agtgacaaaa ttgatgatgc atctgctctc tcctgtggc accccaattt 240  
 gaagttgctc cttgtcact 259

<210> 2637  
 <211> 294  
 <212> DNA  
 <213> Glycine max  
  
 <220>  
 <221> unsure  
 <222> (1)..(294)  
 <223> unsure at all n locations  
  
 <400> 2637  
  
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 ttacgagctt cctcagcatt tgggagaagg ctganttgac annaggtcag tgatgtggag 120

cttgagtcc tcaccggaag tgacaagatt gatgatgaat ctgctttgtc attgtcacnc 180  
 cccaatttga agttgctcct tgtcactctt ggagaacatg gttccagata ctacaccgag 240  
 aatttcaaag gatcagtaga tgcttttcat gttaatacag ttgatacaac tgggt 294

<210> 2638  
 <211> 295  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(295)  
 <223> unsure at all n locations

<400> 2638

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 ccgcccgaag atctcaatct ncgaactcat cagatctggc aaaagtattc ccattatgga 120  
 tcgataagct tgatacgtgg agccatgcag attcaggcaa caccctgaag ggcaatggaa 180  
 gttggccagg gaaggcaggc atggcttgct cctcttatgc ancccaaaac ctgncgngct 240  
 aaaccttggtg ggccctnccg gccgagcgac ggcacgtnc a gcccaatacc ncnnc 295

<210> 2639  
 <211> 266  
 <212> DNA  
 <213> Glycine max

<400> 2639

ccaagattgt cgatgatcag tccatacttg aagatgaacc aaggttaaga gaagtactaa 60  
 agtttgcaaa tgcattgtga gctattacaa ctacccaaaa gggagcaatt ccggcccttc 120  
 ccaaagagga ggctgcactg aaactgatca aaggggggtc acagaatctt ttggcaaaat 180  
 gcaaaagtgc tagcatgatt tcgttttctt cccctaattgt ttaaattttc cgttggattt 240  
 gcttgctata agtttaggag ggaact 266

<210> 2640  
 <211> 205  
 <212> DNA  
 <213> Glycine max

<220>

<221>        unsure  
 <222>        (1)..(205)  
 <223>        unsure at all n locations  
  
 <400>        2640  
  
 gtgagttctt gtttttccga aatcctagtg ctgatatgct acttcaagag tccgagcttg    60  
 ataaaaatct cataaagaag gctaaaattt tccattatgg ttccatcagc ttgattgatg   120  
 agccatgcaa gtctgtcat cttgtctgta tgagatttgc tanagaatct ggttgcattc   180  
 ttctgtatga tccaaatttg agatt    205

<210>        2641  
 <211>        286  
 <212>        DNA  
 <213>        Glycine max  
  
 <400>        2641  
  
 cggacttcgg ctcgaggctc atcgacttcg tccccaccgt ctctggcgtg tccctggccg    60  
 agggccctgg cttcctcaag gccccggcg gcgccccgc taacgtcgcc atcgccgtgt   120  
 cgcgcctcgg cggcaaagcc gccttcgtcg gcaagctcgg cgacgacgag ttcggccaca   180  
 tgctcgccgg aatcctcaag gaaaacggcg ttcgcgccga cggcatcaac tttgaccagg   240  
 gcgcacgcac cgccttgcc ttcgtgaccc tacgcgccga cgggga                                286

<210>        2642  
 <211>        268  
 <212>        DNA  
 <213>        Glycine max  
  
 <400>        2642  
  
 cttctatctc tgcaattcaa acacaaaaac catggcttcc actaatgctc ttcctccac    60  
 cggcaacggc ctcacgtga gcttcggcga gatgctcatc gacttcgttc ccaccgtctc   120  
 cggcgtgtcc ctgcggagg ctccgggatt cctcaaggcc cccggcggcg ccccgccaa   180  
 cgttgccatc gccgtcgca gactcggtcg caaagcggcg ttcgtcggga agctcggcga   240  
 cgacgagttc gggcacatgc tggccgga    268

<210>        2643  
 <211>        265  
 <212>        DNA

<213> Glycine max  
 <400> 2643  
 cggctcgagc cggcgtgtcc ctccgaggag ctccgggatt cctcaaggcc cccggcggcg 60  
 cccccgcaa cgttgccatc gccgtcgcga gactcggcgc caaagcggcg ttcgtcggga 120  
 agctcggcga cgacgagttc gggcacatgc tggcccgaat cctgaaggag aacgacgtgc 180  
 gatccgacgg gatcaacttc gaaaagggcg cgcgcaccgc gctggcggtc gtgaccctac 240  
 gcgccgacgg ggagcgtgag ttcac 265

<210> 2644  
 <211> 263  
 <212> DNA  
 <213> Glycine max  
 <400> 2644  
 ccaacgctct tcttcccacc ggcaacagcc tcatcgtgag cttcggcgag atgctcatcg 60  
 atttcgtccc caccgtctcc ggcgtgtccc ttgaggaggc tccgggcttc ctcaaggccc 120  
 ccggcggcgc ccccgcaacg tcgccatcgc cgtcgcgagg ctccggcgaa aggcggcgtt 180  
 cgtcggaaag ctccggcgacg acgagttcgg gcacatgctg gctgagatcc tgaaggagaa 240  
 cgacgtgcga tacgacggga tca 263

<210> 2645  
 <211> 247  
 <212> DNA  
 <213> Glycine max  
 <400> 2645  
 ctcgagccgt tctatctctg caattcaaac aaaaaacca tggcttccac taatgctctt 60  
 cctcccaccg gcaacggcct catcgtgagc ttccggcgaga tgctcatcga cttcgttccc 120  
 accgtctccg gcgtgtccct cgcggaggct ccgggattcc tcaaggcccc cggcggcgcc 180  
 cccgccaaacg ttgccatcgc cgtcgcgaga ctccggcgga aagcggcggt cgtcgggaag 240  
 ctccggcg 247

<210> 2646  
 <211> 276  
 <212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)..(276)

<223> unsure at all n locations

<400> 2646

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gcttctccca ccaacgctct tctctccacc ggcaacggcc tcacgtgag cttcggcgcg 120

atgctcatcg atttcgtccc caccgtctcc gngtgtccc ttgcggaggc tccgggcttc 180

ntcaaggccc ccggcgcgcg ncccgccaac gtcgncatcg ccgtcgcgag gtcgncgga 240

aaggcgcggt tcgtcggnaa gtcgngacg acgagt 276

<210> 2647

<211> 299

<212> DNA

<213> Glycine max

<400> 2647

tacagcattc ttctgcaatt caaatcaaatt ttcaaacca tggttctct caccaacgct 60

cttctccca ccggcaacgg cctcatcgag agcttcggcg agatgctcat cgatttcgtc 120

cccacgctct ccggcggtgc ccttgcgag gtcggggct tctcaaggc cccggcgcg 180

gcccccgcca acgtcgccat cgccgtcgcg aggttcggcg gaaaggcggc gtctgcgga 240

aagctcgcg acgacgagtt cgggcacatg ctggctggaa cctgaaggag aacgacgtc 299

<210> 2648

<211> 277

<212> DNA

<213> Glycine max

<400> 2648

ctcgagccgc tcgtagcatt tcggcatcca aactaactct ctcatcttct acagcattct 60

tctgcaattc aaatcaaatt ttcaaaccat ggcttctct accaacgctc tctctccac 120

cggcaacggc ctcatcgta gcttcggcg gatgctcatc gatttcgtcc ccacgctctc 180

cggcggtgct cttgcggagg ctccgggctt cctcaaggcc cccggcgcg cccccgcaa 240

cgtcgccatc gccgtcgcga ggctcggcg aaaggcg 277



<210> 2649  
 <211> 279  
 <212> DNA  
 <213> Glycine max  
 <400> 2649  
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 ggcaccccaa tttgaagttg ctctttgtca ctcttgggga acatggttcc agatactaca 180  
 ccaagagttt caaaggatcg gtagatgctt tccatgtcaa tacagttgat acaactgggtg 240  
 ccggtgattc ctttgttggt gctttattgg ccaagattg 279

<210> 2650  
 <211> 265  
 <212> DNA  
 <213> Glycine max  
 <400> 2650  
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 atctgctttg tcattgtggc accccaattt gaagttgctc cttgtcactc ttggggaaca 120  
 tggttccaga tactacacca agagtttcaa aggatcggtg gatgctttcc atgtcaatac 180  
 agttgataca actggtgccg gtgattcctt tgttggtgct ttattgcca gattgtcgat 240  
 gatcagtcca tacttgaaga tgaac 265

<210> 2651  
 <211> 230  
 <212> DNA  
 <213> Glycine max  
 <400> 2651  
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 aggaagtgac aagattgatg atgaatctgc tttgtcattg tggcaccaca atttgaagtt 120  
 gctccttgtc actcttgggg aacatggttc cagatactac accaagagtt tcaaaggatc 180  
 ggtagatgct tgccatgcaa tacagttgat acaactgggtg cccggtgatc 230

<210> 2652  
 <211> 241  
 <212> DNA  
 <213> Glycine max  
  
 <400> 2652  
  
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 agtcagctca ccttgctgct atgagcattg ccaaaaactc tggttgcatt ctatcatatg 120  
 atccaaatth gagattggct ctatggcctt ctgcagacgc cgctcggaaa ggcataatgg 180  
 atatatggga tcaagctgat gtcataaaga taagtgagga tgagattaca tttttgactg 240  
 g 241

<210> 2653  
 <211> 262  
 <212> DNA  
 <213> Glycine max  
  
 <400> 2653  
  
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 caaaaacctg gttgcattct atcatatgat ccaaatttga gattggctct atggccttct 120  
 gcagactccg ctcggaagg cataatggat atatgggatc aagctgatgt tataaagata 180  
 agtgaggatg agattacatt tttgactggg ggtgatgatc cttatgatga taatgttgtt 240  
 ttgaagaaac tttttcaccc aa 262

<210> 2654  
 <211> 273  
 <212> DNA  
 <213> Glycine max  
  
 <400> 2654  
  
 attctcttac ccgtataaac tactattaac ttccaccaga acacgtttct gggtttcttct 60  
 ggctctgcat ttaccatact ctgtttcttg gtttcaattc aatcacacac ctctttgccc 120  
 tcatggccca ctttacctcc tcaggtaaata cagacaatct caccatagaa gactgtattg 180  
 gaaaaagtgc gctggttgtg tgctttggtg aaattttaat agactttgtg ccaacagtgt 240  
 gtggagtgtc actagctgaa gcacctgctt tca 273

<210> 2655  
 <211> 272  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(272)  
 <223> unsure at all n locations

<400> 2655

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 ccttatgatg ataatgttgt tttgaagaaa ctttttcacc caaatctcaa gcttttaatt 120  
 gttactgaag gttcacaggg ttgcagatat tacacgaagg catttaaggg cagggttgca 180  
 ggtgttaaag ttaaacctgt agacacaact ggagctggcg atgcatttgt tagtgggatt 240  
 ttataactgca tagcttctga ccanactatt tt 272

<210> 2656  
 <211> 128  
 <212> DNA  
 <213> Glycine max

<400> 2656

gtacagataa gtgaggatga gattacattt ttgactgggg gtgatgatcc ttatgatgat 60  
 aatgttggtt tgaagaaact ttttcaccca aatctcaagc ttttaattgt aactgaaggt 120  
 tcacaggg 128

<210> 2657  
 <211> 239  
 <212> DNA  
 <213> Glycine max

<400> 2657

ctcttcatta cacaacaaca aagtagttgt taatagcctc tgttttcttc ttgccaccaa 60  
 aatctcacac cttccattgc atcatcattc ataaatgggt catccacct catcaggtca 120  
 atcccatgat ctcaaaaaag aagattgcaa ggaaacaaga tctactgggtg tttgctttgg 180  
 ggaaatgtta atagactttg ttccaacggg gggaggagtg tctactggctg aagcacccg 239

<210> 2658

<211> 229  
 <212> DNA  
 <213> Glycine max  
  
 <400> 2658  
  
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 tcttaagagt aatggagaac ctgaattcat gttttaccga aatccaagtt ctgatgtgct 120  
 ccttcgtcct gatgaaattg atatggacct cataaagaag gccacaatat ttcattatgg 180  
 ttcaaagttt gattaaggaa cctgtaggtc agctcatctt gctgcaatg 229

<210> 2659  
 <211> 256  
 <212> DNA  
 <213> Glycine max  
  
 <400> 2659  
  
 ctcttgggga acatgggttc agatactaca ccaagagttt caaaggatcg gtagatgctt 60  
 tccatgtcaa tacagttgat acaactggtg ccggtgattc ctttgttggt gctttattgg 120  
 ccaagattgt cgatgatcag tccatacttg aagatgaacc aaggttaaga gaagtactaa 180  
 tgtttgcaaa tgcattgtga gctattacaa ctacccaaaa gggagcaatt ccggcccttc 240  
 ccaaagagga ggctgc 256

<210> 2660  
 <211> 266  
 <212> DNA  
 <213> Glycine max  
  
 <400> 2660  
  
 ctgtcactct tggggaacat ggttccagat actacaccaa gagtttcaaa ggatcggtag 60  
 atgctttcca tgtcaataca gttgatacaa ctggtgccgg tgactccttt gttggtgctt 120  
 tattggccaa gattgtcgat gatcagtgca tacttgaaga tgaaccaagg ttaagagaag 180  
 tactaaagtt tgcaaatgca tgtggagcta ttacaactac ccaaaggga gcaattccgg 240  
 cccttcccaa agaggaggct gcaactg 266

<210> 2661  
 <211> 234  
 <212> DNA

<213> Glycine max  
 <400> 2661  
 tctcgagccg attcggctga gatggttcca gatactacac caacagtttc aaaggatcgg 60  
 tagatgcttt ccatgtcaat acagttgata caactgggtgc cggtgattcc tttgttggtg 120  
 ctttattggc caagattgtc gatgatcagt ccatacttga agatgaacca aggttaagag 180  
 aagtataaag tttgcaaata catgtggagc tattacaact acccaaaagg gagc 234

<210> 2662  
 <211> 253  
 <212> DNA  
 <213> Glycine max  
 <220>  
 <221> unsure  
 <222> (1)..(253)  
 <223> unsure at all n locations

<400> 2662  
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 tccccgccac cggcaccggc ctcatcgta gcttcgggtga gatgctcatc gacttcgtcc 120  
 ccaccgtctc tggcgtgtcc ctggccgagg cccttggtt cctcaaggaa aacggcggtc 180  
 gcggcgacgg catcaacttt gaccagggcg caccgaccgc cctggccttc gtgacctaac 240  
 gcggcgacgg gga 253

<210> 2663  
 <211> 168  
 <212> DNA  
 <213> Glycine max

<400> 2663  
 ctaaaatcca aacacactct ctcttcccat ggcgttgaac aatggcggtc ccgccaccgg 60  
 caccggcctc atcgtcagct tcggtgagat gctcatcgac ttcgtcccca ccgtctctgg 120  
 cgtgtccctg gccgagggcc ctggcttctt caaggccccc ggcggcgc 168

<210> 2664  
 <211> 286  
 <212> DNA  
 <213> Glycine max

<220>  
 <221>       unsure  
 <222>       (1)..(286)  
 <223>       unsure at all n locations  
  
 <400>       2664  
  
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 ccgccaccgg caccggcctt catcgtcagc tntcggtgag atgctcatcg acttcgtccc   120  
 caccgtctct ggcgtgtccc tggccgaggc cctggcttcc tcaaggcccc cggcggcgcc   180  
 cccgctaacg tcgcnatcgc cgtgtcgcgc ctcgggcgga aagcgctttc gtcggcaagc   240  
 tcggcgacga cgagttcggc aaaatgntcg ccggantccc caagga                   286

<210>       2665  
 <211>       304  
 <212>       DNA  
 <213>       Glycine max  
  
 <400>       2665  
  
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 gcaatggaag tagccaagga atctgggtgc ttgctctcct atgaccccaa ccttcgtcta   120  
 cctttgtggc catcggctga ggaagctcgt aagcaaatac tgagcatttg ggagaaggct   180  
 gatttgatca aggtcagtga tgcggagctt gagttcctca caggaagtga caagattgat   240  
 gatgaatctg ctttgtcatt gtggcacccc aatttgaagt tgctccttgt cactcttggg   300  
 gaac   304

<210>       2666  
 <211>       280  
 <212>       DNA  
 <213>       Glycine max  
  
 <400>       2666  
  
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 gcaatggaag tagccaagga atctgggtgc ttgctctcct atgaccccaa ccttcgtcta   120  
 cctttgtcgc cttcggctga ggaagctcgt aagcaaatac tgagcatttg ggagaaggct   180  
 gatttgatca aggtcagtga tgcggacttg agttcctcac aggaagtgac aagattgatg   240

atgaatctgc tttgtcattg tggcacccca atttgaagtt 280

<210> 2667  
 <211> 275  
 <212> DNA  
 <213> Glycine max

<400> 2667

caagattcat catcaatctt gtgacaggaa gtgacaagat tcatcatcaa tcttgtcact 60  
 tctgtgagg aactcaagct ccgcatcact gaccttgatc aaatcagcct agtgccaaat 120  
 gctcagtatt tgcttacgag cttgctcagc cgaaggcaca aaggtagacg aagggtgggg 180  
 tcataggaga gcaagcacc agattccttg gctacttcca ttgccttcaa gtgtgctgat 240  
 ctgcatggct ccacgatcaa actgattgat ccgta 275

<210> 2668  
 <211> 247  
 <212> DNA  
 <213> Glycine max

<400> 2668

ggatcaatca gtttgatcgt ggagccatgc agatcagcac acttgaaggc aatggaagta 60  
 gccaaaggaat ctgggtgctt gctctcctat gacccaacc ttcgtctacc tttgtggcct 120  
 tcggctgagg aagctcgtaa gcaaatactg agcatttggg agaaggctga tttgatcaag 180  
 gtcagtgatg cggacttgag ttcctcacag gaagtgacaa gattgatgat gaatctgctt 240  
 tgtcatt 247

<210> 2669  
 <211> 245  
 <212> DNA  
 <213> Glycine max

<400> 2669

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 gccaaaggaat ctgggtcttg ctctcctatg accccaacct tcgtctacct ttgttgctt 120  
 cggctgagga agctcgtaag caaatactga gcatttggga gaaggctgat ttgatcaagg 180  
 tcagtgatgc ggagcttgag ttcctcacag gaagtgacaa gattgatgat gaatctgctt 240

tgtca 245

<210> 2670  
 <211> 253  
 <212> DNA  
 <213> Glycine max

<400> 2670

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 atgctcctca agcccgaaga actcaatctc gaactcatca gatctgcaaa agttttccat 120  
 tacggatcaa tcagtttgat cgtggagcca tgcagatcag cacacttgaa ggcaatggaa 180  
 gtagccaagg aatctgggtg cttgctctcc tatgacccca accttcgtct acctttgtgg 240  
 ccttcgggctg agg 253

<210> 2671  
 <211> 234  
 <212> DNA  
 <213> Glycine max

<400> 2671

caatctcgaa ctcatcagat ctgcaaaagt tttccattac ggatcaatca gtttgatcgt 60  
 ggagccatgc agatcagcac acttgaaggc aatggaagta gccaaggaat ctgggtgctt 120  
 gctctcctat gaccccaacc ttctgtctacc tttgtggcct tcggctgagg aagctcgtaa 180  
 gcaaatactg agcatttggg agaaggctga tttgatcaag gtcagtgatg cgga 234

<210> 2672  
 <211> 263  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(263)  
 <223> unsure at all n locations

<400> 2672

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 gtggagccat gcagatcagc acaattgaag gcaatggaag tagccaagga atctgggtgc 120  
 ttgctctcct atgaccccaa ccttcgtcta cccttgtggc cttcggctga ggaagctcgt 180



aagcaaatac tgagcatttg ggagaaggct gatttgatca aggtcagtga tgcgganttg 240  
 agttcctcac aggaagtgac aag 263

<210> 2673  
 <211> 229  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(229)  
 <223> unsure at all n locations

<400> 2673

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 cggatcaatc agtttgatcg tggagccatg cagatcagca cacttgaagg caatggaagt 120  
 agccaaggaa tctgggtgct tgctctccta tgaccccaac cttcgtctac ctntgtngcc 180  
 ttcggctgag gaagctcgta agcaaatact gagcatttgg gagaaggct 229

<210> 2674  
 <211> 256  
 <212> DNA  
 <213> Glycine max

<400> 2674

ggatcaatca gtttgatcgt ggagccatgc agatcagcac acttgaaggc aatggaagta 60  
 gccaaaggaat ctgggtgctt gctctcctat gaccccaacc ttcgtctacc tttgtgcgcc 120  
 ttcggctgag gaagctcgta agcaaatact gagcatttgg gagaacgctg atttgatcaa 180  
 ggtcagtgat gcggacttga gttcctcaca ggaagtgaca agattgatga tgaatctgct 240  
 ttgtcattgt ggcacc 256

<210> 2675  
 <211> 323  
 <212> DNA  
 <213> Glycine max

<400> 2675

ttcggctcga gaatggcgca cgcaccgccc tggccttcgt gaccctacgc gccgacgggg 60

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agcgatagtt catgttctac agaaacccca gcgtcgacat gtcctcaag cccgaagaac 120
tcaatctcga actcatcaga tctgcaaaag ttttcaatta cggatcaatc agtttgatcg 180
tggagccatg cagatcagca cacttgaagg caatggaagt agccaaggaa tctgggtgct 240
tgctctccta tgaccccaac cttcgtctac ctttgtggcc ttcggctgag gaagctcgta 300
agcaaatact gagcatttgg gag 323

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<210>      2676
<211>      380
<212>      DNA
<213>      Glycine max

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<400>      2676

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gtagactaag aggctcagca gctttcattg gcaaggtggg aaatgatgaa tttggacatc 180
tgttatctga tattctgaaa caaaatggtg ttgacaattc tggcctgctc tttgatgatc 240
atgcaaggac agcgttggga atttatgctc ttaagagtaa tggagaacct gaattcatgt 300
tttaccgaaa tccaagttct gatgtgctcc ttcgtcctga tgaaattgat atggacctca 360
taaagaaagc acaatatttc 380

```

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<210>      2677
<211>      336
<212>      DNA
<213>      Glycine max

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<220>
<221>      unsure
<222>      (1)..(336)
<223>      unsure at all n locations

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<400>      2677

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tccccgccac tggcaccggc ctcatcgta gcttcggcga gatgctcatc gacttcgtcc 120
ccaccgtctc cggcgtgtcc ctggccgagg cccttggett cctcaaggcc cncggcgggc 180
ccccagccaa cgtcgccatc gccgtgtcgc gactcggcgg caaagccgcc ttcgtcggca 240
aactcgggga cgacgagttc ggccacatgc tcgccggaat ccttaaggag aacgggtgtcc 300

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gcgcccgcg cattaacttc gaccaggggtg cacgca 336

<210> 2678  
 <211> 339  
 <212> DNA  
 <213> Glycine max

<400> 2678

gggagcgtga gttcatgttc tacagaaacc ccagcgcgca catgctcctc aagcccgaag 60  
 aactcaatct cgaactcatc agatctgcaa aagttttcca ttacggatca atcagtttga 120  
 tcgtggagcc atgcagatca gcacacttga aggcaatgga agtagccaag gaatctgggt 180  
 gcttgcctct ctatgacccc aaccttcgtc tacctttgtg gccttcggct gaggaagctc 240  
 gtaagcaaact actgagcatt tgggagaaaag ctgatttgat caaggtcagt gatgcggaag 300  
 ctgagttcct cacaggaagt gacaagattg atgatgaat 339

<210> 2679  
 <211> 271  
 <212> DNA  
 <213> Glycine max

<400> 2679

cagccgcaga cagagatgga agctgtgtgt ggaagtgttt gggtcacatc ctctcttcca 60  
 cgctcaccca agtccactct ctctctattc cgctctactc atcaacacct aacagcattt 120  
 ccttcacaat cccatctttt cttatatcac cctcctccct atgctaattgc taaaaccctc 180  
 cgcgccagaa cctcctccaa acccgccatt ttccttcccc acttaattgc ttctctggaa 240  
 caagttgacc agacttacat aatgggtcaag c 271

<210> 2680  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<400> 2680

acgcgtccag tacagctggc caaaaaacga ccgaaggggg agataccaag gaaatttggt 60  
 tcttacctct taccgcgaga cagatgaaaag aagggaata catggaagct gtgtgtgcaa 120  
 gtggaagcag tgtttggtgc acatcctcgc ttacacgcac acccaagatc acactccctc 180

tattccgcgc cagttagcac cagctaacag catttccttc acaatccctt cttttctcct 240  
atcacccttc tcgctatgct aatgctagaa cctccgcgc cacaacctcc tccagacca 300  
ttttccttcc ccacataagt gcatcactgg aacaaattta ctacacttat attatggtca 360  
agcccgacgg cgtcaaactg ggccctcgtgg g 391

<210> 2681  
<211> 405  
<212> DNA  
<213> Glycine max

<220>  
<221> unsure  
<222> (1)..(405)  
<223> unsure at all n locations

<400> 2681

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ccgcagacag agatggaagc tgtgtgtgga agtggttggg tcacatcctc tcttccacgc 120  
tcaccaagt ccactctctc tctattccgc tctactcatc aacacctaac agcatttctt 180  
tcacaatccc atcttttctt atatcaccct cctccctatg ctaatgctaa aaccctccgc 240  
gccagaacct cctccaaacc cgccattttc cttccccact taattgcttc tctggaacaa 300  
gttgaccaga cttacataat ggtcaagccc gacggcgtgc aacgtggcct cgtgggagaa 360  
attacttcta gggttgagaa ganagggttt aagtcaactg gcttg 405

<210> 2682  
<211> 237  
<212> DNA  
<213> Glycine max

<220>  
<221> unsure  
<222> (1)..(237)  
<223> unsure at all n locations

<400> 2682

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aatcgcataa tatttgagaa gccatttggc tttgatgcac tttcttccca taggctgaca 120  
caatatcttc tttcaaactt tcaggaaaag caaatatata gaattgatca tctactagga 180

aggatatctc atgaaaactc tacagnttta agggtttcaa agcgagnttt tgagcca 237

<210> 2683  
 <211> 255  
 <212> DNA  
 <213> Glycine max

<400> 2683

ctgtgttgag ttttccaacc ttaaaaagac tctctcttct ctctcgtctt ttctctccct 60  
 gaagcaaaac aacattagca tcaaaaccag agtggttcta gtaatccggt gctgctagag 120  
 gatgggaact agtgaatggc atatcgagcg aagatctagc ttcggcactg aatccccctt 180  
 agcaatatag gcacgcaatg tgcctgaaac tcgtcactct ctattgtcgt gcttggcgct 240  
 tctggggatc ttgct 255

<210> 2684  
 <211> 260  
 <212> DNA  
 <213> Glycine max

<400> 2684

tatggaatcg cataatattt gataagccat ttggctttga tgcactttct tcccataggc 60  
 tgacacaata tcttctttca aactttcagg aaaagcagat atatagaatt gatcatctac 120  
 taggaaggaa tctcattgaa aatcttacag ttttaagggt ttcaaacta gtttttgagc 180  
 cactttggag tcgtacttat atagataatg tacaggatcat tttatcagag gacttggctg 240  
 tgcacactgg aaatattcaa 260

<210> 2685  
 <211> 279  
 <212> DNA  
 <213> Glycine max

<400> 2685

tacggctgcg acaagacgac agaaggggag tgcgtgaaga aaacaccaac tgttttgagt 60  
 tttccaacct taaaaagact ctctcttctc tctctctctt tctctacctg aagcaaaaca 120  
 acattagcat caaaaccaga gtggttctag taatccggtg ctgctagagg atgcgaacta 180  
 gtgaatggca tatcgagcga agatctagct tcggcactga atccccctta gcaagagagg 240

caggaaatgt gcctgaaact gggtcactct ctattgttg 279

<210> 2686  
<211> 137  
<212> DNA  
<213> Glycine max

<400> 2686

ccaggcagta tataagacat ggacagttga tattctcaga agattttggc actgaaggac 60  
gtggcgggta ctttgaccat tatggatatca tgagagacat tatgcagaat catttacttc 120  
aaataactagc actcttt 137

<210> 2687  
<211> 284  
<212> DNA  
<213> Glycine max

<400> 2687

caaccttaaa agactctctt ttctctctct gaactctgaa gcaaaacaac attaccagag 60  
tggttctagt aattcagtgc tgctagaaga tggaaactag tgaatggcat atcgagcgaa 120  
gatctagctt cggctctgaa tcccccttag caagagaggc aggaaatgtg cctgaaactg 180  
ggtcactctc tatttgggtg cttgggtgctt ctgggtgatct tgctaagaag aagacatttc 240  
ctgcactttt ccacctatac ctgcagggat tcttaccacc agat 284

<210> 2688  
<211> 242  
<212> DNA  
<213> Glycine max

<400> 2688

cttttctctc tctgaactct gaagctaaac aacattacca gagtgggttct agtaattcag 60  
tgctgctaga agatggaaac tagtgaatgg catatcgagc gaagatctag cttcgggtct 120  
gaatccccct agcaagagag gcaggaaatg tgcttgaac tgggtcactc tctattgtgg 180  
tgcttgggtgc ttctgggtgat cttgctaaga agaagacatt tctgcactt ttccacctat 240  
ac 242

<210> 2689  
 <211> 194  
 <212> DNA  
 <213> Glycine max  
  
 <400> 2689  
  
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 gaggatggga actagtgaat ggcatatcga gcgaagatct agcttcggca ctgaatcccc 120  
 cttagcaaga tatgcaggaa atgtgcctga aactgggtca ctctctattg ttgtgcttgg 180  
 cgcttctggg gatc 194

<210> 2690  
 <211> 286  
 <212> DNA  
 <213> Glycine max  
  
 <220>  
 <221> unsure  
 <222> (1)..(286)  
 <223> unsure at all n locations  
  
 <400> 2690  
  
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 ttaaagaagg aaaaaggata ccctgtagag aatgtttagan cgtctctccg ggcgtgaccc 120  
 tcgagtccac agggtcceaa attgagcgtc gcagttttgc aggtctggct cgcgccggtt 180  
 gcatggtgta tgatatggga ctagccacca ccccggttg tttcatgagc atttgttgcc 240  
 tccattgcct atgatgcttc aatgatgatg anagcttctc acttgc 286

<210> 2691  
 <211> 269  
 <212> DNA  
 <213> Glycine max  
  
 <220>  
 <221> unsure  
 <222> (1)..(269)  
 <223> unsure at all n locations  
  
 <400> 2691  
  
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 tccctttctt tgaggtcccc actgggttga aattttntgg gaatcttatg gatgctggga 120

atttgtccgt tgcggggaag agagttttgg aacaggttct gatcacattc gtgagaaaga 180  
 tggcatctgg gctgtcttag cttggctttc tattattgca catcgcaaca aagacaagaa 240  
 tcccggggag aaattgatct ccgtatctg 269

<210> 2692  
 <211> 289  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(289)  
 <223> unsure at all n locations

<400> 2692

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 cctttctgtn aggcattgctt gatttttctt acaatttcnt tcttcntaaa tnattaatat 120  
 aaatganata ggcttcacat attttttagac agttctgaaa taacanaaga tggacccggg 180  
 attcagggcc ccactgggtg gnaatttttt gggaatctta tggatgctgg gaatttnncg 240  
 gtttgcgggg aagnaagttt ggaacagggt ctgaccacat gcgtgagat 289

<210> 2693  
 <211> 298  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(298)  
 <223> unsure at all n locations

<400> 2693

tngtcaacat tctgtatgcn gaaaatggac ctgattttng agcagccagt natggggatg 60  
 gtgatagaaa tatgatttta ggaagaagtt tcttgtaact nccttcagac tctgtagcag 120  
 ttattgcagc cattgcaaga naagcgattc nataactcaa gaacggagtt aagggtcttg 180  
 ctcgatcaat gccacaagc ggtgctctgg accgtgttgc taaaaaattg aacctccctt 240  
 tctttgaggt cccactggg ttggaatttt ttgggaatct tatggatgct gggaattt 298



<210> 2694  
 <211> 264  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(264)  
 <223> unsure at all n locations

<400> 2694

tttgttnaggt tttttgtcac tccttcagat tccgtggcca ttatcgctgc aaatgcactt 60  
 gaagctatac catacttttc tgctggttta aagggtggtg ccaggagcat gccaacctct 120  
 gctgccctgg atgttggtgc caaattctga atttgaaatt ttttgaggtc cccacggggt 180  
 ggaagttctt ggtanttttaa tggatgctgg attgttcagt ctgtggtgaa gaaagtttgg 240  
 gatggttcga ccagttcgtg agna 264

<210> 2695  
 <211> 250  
 <212> DNA  
 <213> Glycine max

<400> 2695

cacattcgtg agacagatgg catctgggct gttttagcta gattttctat tattgcacat 60  
 cgcaacaaag acaagaatcc cggggagaaa ttgatctccg tatctgacgt tgtgatggag 120  
 cactgggcac ttatggaagg aatttcttct ctagatatga ctacgaggaa tgtgaatctg 180  
 aaggtgccaa taagatgata gaatacctac gagatatttt gtctaagagc aagcctgggtg 240  
 atcagtatgg 250

<210> 2696  
 <211> 340  
 <212> DNA  
 <213> Glycine max

<400> 2696

cacacctgcc gccagtcaca tcatccggat acgaaaggcg accggtggca tcctcctcac 60  
 tgccagccac aaccctgggtg gccccgatga ggactttggc atgaagtaca acctcgccaa 120  
 cgggtgccccg gctcccgaga gogtcaccaa caagatctac gaaacctcca agacctctc 180

gtcgtacaag atcgccgaac tccccgacat cgacttgagc acaattggca cacaaaagta 240  
 tggcagcctc gaggttgaga tcgtccactc aacagaggac tacctgaaga tgctcaagga 300  
 catcttcgac tttgacctca tcaagtcgtt cctcaagcag 340

<210> 2697  
 <211> 228  
 <212> DNA  
 <213> Glycine max

<400> 2697

ctggtggggc cgacaatgat ttcggcatca agtacaacgt caacaacggt ggtccagctc 60  
 cagagagtgt gaccgacaag atcttccaac gcaccaagga gatttccgcc tacaaggctc 120  
 ttgatgctgg cgagcttgac ctatccaaga ttagtagctc cacctatggt cccatggagg 180  
 ttgagatcgt cgactcgctc aaggactata ttaccctact caaggaca 228

<210> 2698  
 <211> 231  
 <212> DNA  
 <213> Glycine max

<400> 2698

atntagtaaa agcagttcgc aaggcagctg gaaacataga gaaaccattg gagggtttcc 60  
 atatagttgt tgatgcaggc aatggagcag gagggcttttt tgcagcaaag gttctggaac 120  
 ctctgggggc aataacttct gggagtcaat ttttgagacc tgatggcttg tttccaaatc 180  
 atatcccaaa tcctgaggac aaaacagcaa tgaaagctat aaccaagca g 231

<210> 2699  
 <211> 265  
 <212> DNA  
 <213> Glycine max

<400> 2699

atcagatctg ccagatgtgg atatcaccac aacaggtggt acaagcttta caggccctga 60  
 aggaccattt gatgttgagg tttttgattc agcaagtgat tatataaaat tgatgaagtc 120  
 aatttttgat tttgaatcta tcaggaaact gctgtcatct cctaaattca cattctgtta 180  
 tgatgcacta catgggggtg gtggagcata tgcaaagagt atatttgtgg atgagcttgg 240

ggcacaagaa agctctttac tgaac 265

<210> 2700  
 <211> 266  
 <212> DNA  
 <213> Glycine max

<400> 2700

cgagctgatg gatccagggc aacaggtgca tttatactga cagcaagtca caatcctggg 60  
 ggccctcatg aggattttgg aattaaatat aatatggaaa acggtggacc tgcaccagag 120  
 ggaattactg acaagatata tgaaaacaca acaacaatta atgagtactt gattgcatca 180  
 gatctgccag atctggatat caccacaaca ggtgttacaa gctttacagg ccctgaagga 240  
 ccatttgatg ttgaggtttt tgattc 266

<210> 2701  
 <211> 282  
 <212> DNA  
 <213> Glycine max

<400> 2701

gtttccaaat catatcccaa atcctgagga caaacagca atgaaagcta taaccaagc 60  
 agtccttgat aacaaagctg atcttggaaat tatctttgat actgatgtgg acagatctgc 120  
 tgctgtggat ttcactggcc gtgaattcaa caggaatcgt ttaattgcct taatggcagc 180  
 tattgttctt gaggaacatc ctggaacaac tattgtcaca gacagtgtga cttctgatgg 240  
 gcttaccacg tttattgaga agacacttgg tggaagacac ca 282

<210> 2702  
 <211> 277  
 <212> DNA  
 <213> Glycine max

<400> 2702

cacatthttat gcctccactg ggacaacctc aataaggaag atcacataaa aagtaacaca 60  
 cgttatattt ttattgagaa gcagcaccac aagcattgaa gaaacttata ttagttctgt 120  
 gttgtttaat tgtctgtttg atttgagtgg tttccaatta cagggctgtc ttagcttggc 180  
 tttctattat tgcacatcgc aacaaagaca agaatcccgg ggagaaattg atctccgtat 240

ctgacgttgt gatggagcac tgggcaactt atggaag 277

<210> 2703  
 <211> 261  
 <212> DNA  
 <213> Glycine max

<400> 2703

gcattgggct acttatgggc gccattatta tactcgatat gactatgaaa acgtggatgc 60  
 aggtgcagca aaggaactga tggcatatth ggtcaagctg cagtcctcac tttcagaagt 120  
 caatcagatt gttaagggga taaggtcaga tgthttcgaat gttgtccacg gtgatgaatt 180  
 tgagtacaat gatcctgtgg atggttccat ctcatcacat cagggaatcc gatatttgth 240  
 tgaggatgga tcacgattga t. 261

<210> 2704  
 <211> 300  
 <212> DNA  
 <213> Glycine max

<400> 2704

tctcgagccg aatcggctcg agtacggctg cgagaagacg tcagaacggg tggacagatc 60  
 tgctgctgtg gatttcactg gccgtgaatt caacaggaat cgtttaattg ccttaatggc 120  
 agctattgth cttgaggaac atcctggaac aactattgtc acagacagtg tgacttctga 180  
 tgggcttacc acgtttattg agaagaaact tgggtggcaga caccatcggg tcaaaagagg 240  
 ctacaaagat gtgattgatg aagctattcg tttgaattct attggtgagg agtcacattt 300

<210> 2705  
 <211> 279  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(279)  
 <223> unsure at all n locations

<400> 2705

ccaaaggaag acttcggagg aggacacca gacccaatt tgacatatgc aaaanagttg 60  
 gttgctcgta tgggattggg caaatccgaa cccaagaag agccccaga gtttggtgct 120

gcttctgatg gtgatgcaga tcgcaacatg gttcttggtg aaagggttttn tgtcactcct 180  
 tcagattccg tggccattat cgctgcaaat gctgttgaag ctataccata cttttctgct 240  
 ggtttaaagg gtgttgccag gagcatgcca acctctgct 279

<210> 2706  
 <211> 270  
 <212> DNA  
 <213> Glycine max

<400> 2706

ggagcatatg caaagagtat atttgtggat gagcttgggg cacaagaaag ctctttactg 60  
 aactgtacac caaaggaaga ctttggagga ggacaccag accccaattt gacatatgca 120  
 aaagagttgg ttgctcgtat gggattgggc aaatccgaac cacaagatga tccccagag 180  
 tttggtgctg cttctgatgg tgatgcagat cgcaacatga tacttggtaa aagggttttt 240  
 gtcactcctt cagattccgt ggccattatc 270

<210> 2707  
 <211> 272  
 <212> DNA  
 <213> Glycine max

<400> 2707

gcactacatg gggttggtgg agcatatgca aagagtatat ttgtggatga gcttggggca 60  
 caagaaagct ctttactgaa ctgtacacca aaggaagact ttggaggagg acaccagag 120  
 cccaatttga catatgcaaa agagttggtt gctcgtatgg gattgggcaa atccgaacca 180  
 caagatgatc cccagagtt tgggtgctgct tctgatggtg atgcagatcg caacatgata 240  
 cttggtaaaa gggtttttgt cactccttca ga 272

<210> 2708  
 <211> 263  
 <212> DNA  
 <213> Glycine max

<400> 2708

gcttggagca caagaaagct ctttactgaa ctgtacacca aaggaagact tcggaggagg 60  
 acaccagag cccaatttga catatgcaaa agagttggtt gctcgtatgg gattgggcaa 120

atccgaaccc caagaagagc cccagagtt tgggtgctgct tctgatggtg atgcagatcg 180  
 caacatgggtt cttggtaaaa ggttttttgt cactccttca gattccgtgg ccattatcgc 240  
 tgcaaagtct gttgaagcta tac 263

<210> 2709  
 <211> 269  
 <212> DNA  
 <213> Glycine max

<400> 2709

aaaattgatg aagtcaattt ttgattttga atctatcagg aaactgctgt catctcctaa 60  
 attcacattc tggtatgatg cacctacatg gggttgggtg agcttatgca aagagtattt 120  
 ttgtggatga gcttggagca caagaaagct ctttactgaa ctgtacacca aaggaagact 180  
 tctgaggagg ataccagac tccagtttga catatgcaaa agagtttggt gctcgtatgg 240  
 gattgggcaa atccggaccc caagaagag 269

<210> 2710  
 <211> 283  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(283)  
 <223> unsure at all n locations

<400> 2710

ggcnagtgat tntataanat tgatgaagtc aattttngat tttgaatcta tcaggaaact 60  
 gctgtcatct cctaaattcc acattctgtt atgatgcact acatggggnn ggtggagcat 120  
 atgcaaagag tattttttgtg gatgagctgg agcacaagan agctctttac tgaactgtac 180  
 accaaaggaa gacttcggag gaggacaccc agaccccaat ttgacatatg caaaagcagt 240  
 tggttgctcg tatgggattg ggcaaattccg naccccaaga aga 283

<210> 2711  
 <211> 263  
 <212> DNA  
 <213> Glycine max

<400> 2711

atgagaagga tccatcaaag attgggagac tttcaaata agcccttgct cctcttgtgg 60

aagttgcatt gaaactttcg aagatggaag aattcactgg tcgatccgct ccaacagtca 120

ttacatgaac acatacaggt ggaagggtgg tagatcctga agtttctccc agtcatttct 180

tctttgttca gtttcttacg gatggccgaa cactagtgtt ggttgtttgc agcctttgct 240

atgggcactt gagtggaatt tga 263

<210> 2712

<211> 308

<212> DNA

<213> Glycine max

<400> 2712

gagaaggatc catcaaagat tgggagactt tcaaataag cccttgctcc tcttgtggaa 60

gttgcatgaa aactttcgaa gatggaagaa ttcactggtc gatccgctcc aacagtcatt 120

acatgaacac atacaggtgg aagggtggtta gatcctgaag tttctcccag tcatttcttc 180

tttgttcagt ttcttacgga tggccgaaca ctagtgttgg ttgtttgcag cctttgctat 240

gggcatgagt ggatttgatc agttacttat caaaatttga tgtgctgaat aagttgcaac 300

tgccgagt 308

<210> 2713

<211> 285

<212> DNA

<213> Glycine max

<400> 2713

caacaattcg attatacatt gagcaatatg agaaggatcc atcaaagatt gggagacttt 60

caaacgaagc acttgctcct gcttgtggaa gttgcgttga aactttcgaa gatggaagaa 120

ttcactggtc gatccgctcc aacagtcatt aatgaacaca ttcaagtgga aggtggttag 180

atcctgaagc ttctcccagt gcatttcatt tcttctttgt ccagtatctt acggatagcc 240

gaacagtaga tttggttgtt tgcagccttt gctatgggaa attga 285

<210> 2714

<211> 260

<212> DNA

<213> Glycine max

<400> 2714

gccagtcacg gtgctcttca atgtttcacg cgtagagacc actcccttcg atggccagaa 60  
gcctgaaccc tctgggtctcc gcaacaaggt gaaagtgttc gtgcaacctc attacctcca 120  
taactttggt cagtcaacat tcaatgcatt aactgtggaa aaagttagag gtgcaacgct 180  
agttgtatct ggtgatgggc gttatTTTTT aaaggtagct attcagatta taactaaaat 240  
gtcagcagca aatggagtaa 260

<210> 2715

<211> 252

<212> DNA

<213> Glycine max

<400> 2715

cgggtagcca gccagtcacg gtgctcttca atgtttcacg cgtagagacc actcccttcg 60  
atggccagaa gcctggaacc tctgggtctcc gcaagaaggt gaaagtgttc gtgcaacctc 120  
attacctcct aactttgttc agtcaacatt caatgcatta actgtggaaa aagttagagg 180  
tgcaacgcta gttgtatctg gtgatgggcg ttatTTTTTca aaggaagcta ttcagattat 240  
aactaaaatg tc 252

<210> 2716

<211> 246

<212> DNA

<213> Glycine max

<400> 2716

gtttttcttt gttccggtag ccagccagcc agccatggcg ctcttcaatg tttcacgcgt 60  
tgagaccacc cctccgatg cacacaagcc tggaacctct cgtctccgca agaaggtgaa 120  
agtattcgtg caacctcctt acctccataa ctttgtccag cccacattca atgccttaac 180  
tgtggaaaaa gttagaggcg caacgctagt tgtatctggt gatggcgggt atttctcaaa 240  
ggaagc 246

<210> 2717

<211> 262

<212> DNA



<213> Glycine max  
 <400> 2717  
 tccggatttc gttttgcttt gttcaggtag ccagccagtc atggtgctct tcaatgtttc 60  
 acgcgtagag tccactccct tcgatggcct gaatcctgga agctctggtc tccgcaagaa 120  
 ggtgagtagt gttcgtgcaa cctcattacc tccataactt tgttcagtca acattcgttg 180  
 cattaactgt ggataaagtt cgaggtgctg cgctagtgtg atctggtgat ggtcgtgatt 240  
 attcaaagga tgctattcag at 262

<210> 2718  
 <211> 295  
 <212> DNA  
 <213> Glycine max  
 <400> 2718  
 ttttcatcaa ctgctaagct aactgaactc tctctcgttg ttcccttggc ctctcgctct 60  
 ataaatacac atcgcatcat tctctcactt gcacattgaa atctgaacct tccggatttc 120  
 gttttgcttt gttcaggtag ccagccagtc atggtgctct tcaatgtttc acgcgtagag 180  
 accactccct tcgatggcca gaagcctgga acctctggtc tccgcaagaa ggtgaaagtg 240  
 ttcgtgcaac ctcattacct ccataacttt gttcagtcaa cattcaatgc attaa 295

<210> 2719  
 <211> 265  
 <212> DNA  
 <213> Glycine max  
 <400> 2719  
 ctgcgagaag acgacagaag ggggcacatt gaaatctgaa ctttccggat ttcgttttgc 60  
 tttgttcagg tagccagcca gtcattggtgc ttttcaatgt ttcacgcgta gagaccactc 120  
 ctttcgatgg ccagaagcca ggaacctctg tctccgcaag aaggtgaaag tgttcgtgca 180  
 acctcattac ctccataact ttgttcagtc aacattcaat gcattaactg tggagaaagt 240  
 tagaggtgca acgctagtgt tatct 265

<210> 2720  
 <211> 268  
 <212> DNA

<213> Glycine max

<400> 2720

gctaagctaa ctgaactctc tctcgttggt cccttggcct ctcgctctat aaatacacat 60  
cgcatcattc tctcacttgc acattgaaat ctgaaccttc cggatttcgt tttgctttgt 120  
tcaggtagcc agccagtcac ggtgctcttc aatgtttcac gcgtagagac cactcccttc 180  
gatggccaga agcctggaac ctctggtctc cgcaagaagg tgaaagtgtt cgtgcaacct 240  
cattacctcc ataactttgt tcagtcaa 268

<210> 2721

<211> 240

<212> DNA

<213> Glycine max

<400> 2721

acggctgcga gaagacgaca gaagggggca cattgaaatc tgaaccttcc ggatttcggt 60  
ttgctttggt caggtagcca gccagtcacg gtgctcttca atgtttcacg cgtagagacc 120  
actcccttcg atggccagaa gcctggaacc tctggtctcc gcaagaaggt gaaagtgttc 180  
gtgcaacctc attacctcca taactttggt cagtcaacat tcaatgcatt aactgtggaa 240

<210> 2722

<211> 248

<212> DNA

<213> Glycine max

<400> 2722

acggctgcta gaagacgaca gaagggggca cattgaaatc tgaaccttcc ggatttcggt 60  
ttgctttggt caggtagcca gccagtcacg gtgctcttca atgtttcacg cgtagagacc 120  
actcccttcg atggcctgaa gcctggaacc tctggtctcc gctagaaggt gaaagtgttc 180  
gtgcaacctc attacctcca taactttggt cagtcaaggt ttaatgcatt aactgtggaa 240  
aaagttag 248

<210> 2723

<211> 244

<212> DNA

<213> Glycine max

<400> 2723

tgctcttcaa tgtttcacgc gtagagactc atgactggct ggctacctga acaaagcaaa 60

acgaaatccg gaagggttcag atttcaatgt gctttgttca ggtagccagc cagtcatggt 120

gctcttcaat gtttcacgcg tagagaccac tcccttcgat ggccagaagc ctggaacctc 180

tggtctcgcg caagaagggtg aaagtgttcg tgccacctca ttacctccat aactttgttc 240

agtc 244

<210> 2724

<211> 280

<212> DNA

<213> Glycine max

<400> 2724

caataaactg ctaagctaac tgaactctcc ctctctcctt cctcgttcct ttcgcctctc 60

actacaaata cacatctcat ctcatccgtc tctcactttt aatttttctc tgcaatctga 120

accttccgga tttcgttttt ctttggttcg gtagccagcc agccagccat ggtgctcttc 180

aatgtttcac gcgttgagac cactcccttc gatggacaga agcctggaac ctctgggtctc 240

cgcaagaagg tgaaagtatt cgtgcaacct cattacctcc 280

<210> 2725

<211> 140

<212> DNA

<213> Glycine max

<400> 2725

cagccagcca gccatggtgc tcatcaatgt ttcacgcgtt gagaccactc ccttcgatgg 60

acagaagcct ggaacctctg gtctccgcaa gaagggtgaaa gtattcgtgc aacctcatta 120

cctccataac tttgttcagt 140

<210> 2726

<211> 274

<212> DNA

<213> Glycine max

<400> 2726

ctactgctaa gctaactgaa ctctccctct ctcccttctc gttcctttcg cctctcacta 60

caaatacaca tctcatctca tccgtctctc actttttaatt attctctgca atctgaacct 120  
 tccggatttc gtttctcttt gttccggtag ccagccagcc agccatgggtg ctcttcaatg 180  
 tttcacgcgt tgagaccact cccttcgatg gacagaagcc tggaacctct ggtctccgca 240  
 agaagggtgc agtattcgtg caatctcatt acct 274

<210> 2727  
 <211> 237  
 <212> DNA  
 <213> Glycine max

<400> 2727

catcaactgc taagctaact gaactctctc tcgttggtcc cttggcctct cgctctataa 60  
 atacacatcg catcattctc tcacttgcaa attgaaatct ggaacttccg gatttcgttt 120  
 tgctttgttc aggtagccag ccagtcatgg tgctcttcaa tgtttcacgc gtagagacca 180  
 ctcccttcga tggccagaag cctggaacct ctgggtctccg caagaggtga agtggtc 237

<210> 2728  
 <211> 272  
 <212> DNA  
 <213> Glycine max

<400> 2728

gctggattat gttcagtctg tgggtgaagaa agttttggga ctggttctga ccatattcgt 60  
 gagaaagatg gaatatgggc agttttggca tggctatcta tacttgcata tagaataaag 120  
 ataaacttga agacaagctt gtcactgttg aagacatagt tcgccagcat tgggctactt 180  
 atgggcgcca ttattatact cgatatgact atgaaaatgt ggatgcaggt gcagcaaagg 240  
 aactgatggc atatttggtc aagctgcagt cc 272

<210> 2729  
 <211> 197  
 <212> DNA  
 <213> Glycine max

<400> 2729

gctggattat gttcagtctg tgggtgaagaa agttttggga ctggttctga ccatattcgt 60  
 gagaaagatg gaatctgggc agttttggcc tggctatcta tacttgcata taaaaataaa 120

gataaacttg aagacaagct tgtcactgtt gaagacatag ttcgccagca ttgggctact 180  
tatgggcgcc attatta 197

<210> 2730  
<211> 237  
<212> DNA  
<213> Glycine max

<400> 2730

cctcgagccg attcggtcga gtggaagttc tttggtaatt taaacgatgc tggattatga 60  
ctcagtctgt ggtgaagaaa cttttgggac tggttctgac catattcgtg agaaagatgg 120  
aatctgggca gttttggcct ggctatctat acttgcataat aaaaataaag ataaacttga 180  
agacaagctt gtcactgttg aagacatagt tcgccagcat tgggctactt atgggcg 237

<210> 2731  
<211> 257  
<212> DNA  
<213> Glycine max

<220>  
<221> unsure  
<222> (1)..(257)  
<223> unsure at all n locations

<400> 2731

ggaatctggg cagttttggc ctggctatct atacttgcata ataaaaatan agataaactt 60  
gaagacaagc ttgtcactgt tgaagacata gttcgccagc attgggctac ttatgggcgc 120  
cattattata ctgatatga ctatgaaaat gtggatgcag gtgcagcaaa ggaactgatg 180  
gcatatttgg tcaagctgca gtcctcactt tcagaagtca atcagattat taaggggata 240  
aggtcagatg tttcgaa 257

<210> 2732  
<211> 266  
<212> DNA  
<213> Glycine max

<400> 2732

gtacaatgat cctgtggatg gttccatctc atcatatcag ggaatccgat atttgtttga 60  
ggatggatca cgattgattt tccgcctatc tggaactgga tcagaagggtg caacaattcg 120

actatacatt gagcactatg agaaggatcc atcaaagatt gggagacttt caaatgaagc 180  
 ccttgctcct cttgtggaag ttgcattgaa actttcgaag atggaagaat tcaactggtcg 240  
 atccgctcca acagtcatta catgaa 266

<210> 2733  
 <211> 243  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(243)  
 <223> unsure at all n locations

<400> 2733

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 ggatggatca cgattgattt tccgcctatc tggaactgga tcagaagggtg caacaattcg 120  
 attatacatt gagcaatatg agaaggatcc atcaaagatt gggagacttt caaacgaagc 180  
 acttgctcct cttgtggaag ttgcgttgaa actttcgaag atggaagant tcaactggtcg 240  
 atc 243

<210> 2734  
 <211> 272  
 <212> DNA  
 <213> Glycine max

<400> 2734

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 gtgatgaatt tgagtacaat gatcctgtgg atgggttccat ctcatcacat cagggaatcc 120  
 gatatttggt tgaggatgga tcacgattga ttttccgcct atctggaact ggatcagaag 180  
 gtgcaacaat tcgactatac attgagcaat atgagaagga tccatcaaag attgggagac 240  
 tttcaaatag agcccttgct cctcttggtg aa 272

<210> 2735  
 <211> 288  
 <212> DNA  
 <213> Glycine max

<400> 2735

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cagcttctgc atctgctact gctgtgccat atctagacaa gacagatttt ctaaagcttc 120

aaaatggcag tgacattcgt ggtgtggctg ttgatgggtg tgagggagag ccagttaacc 180

tcaactgaacc tgttgccgaa gcaataggag ctgcttttgc tgcattggta gtggagaaaa 240

agaaagctga tgcttctcag catttgagag tttctattgg tcatgatt 288

<210> 2736

<211> 368

<212> DNA

<213> Glycine max

<400> 2736

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agaagaaact tgggtggcaga caccatcggg tcaaaagagg ctacaaaaat gtgattgatg 120

aagctattcg tttgaattct attggtgagg agtcacattt ggcaattgaa actagtggac 180

atggagctct caaggaaaat cattggcttg atgatggcgc atacctaatt gtcaagatct 240

taaataaact tgcttctgca agagcttctg gaaaggggtg tggaagtaag gttttgactg 300

atctaataga cggacttcag gaaccagatt ttgctgtaga actgagatta aagataaacc 360

aaaaccat 368

<210> 2737

<211> 414

<212> DNA

<213> Glycine max

<400> 2737

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tatgcaagac aattaccttg caaattggat ccaggctctg ttttaattcat tgccaccgga 120

ggactacaag aatggtttgt tgggtgttggg aggtgatggg cgatacttta atcaggaagc 180

tgcacagata ataatacaaaa ttgctgctgg aaatgggtgtt ggaaaaattc tgggttgaaa 240

ggaaggtatt ttgtcaacac cagccgtttc tgctgttata agaaagagaa aggcaaatgg 300

tggatttatt atgagtgcaa gccataatcc tggcggacct gaatatgatt ggggtattaa 360

gtttaattac agcagtggac aacctgcacc agaatccatc actgacaaga tttta 414

<210> 2738  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<400> 2738

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 tgtttcacgc gtagagacca ctcccttcga tggccagaag cctggaacct ctggctctccg 120  
 caagaagggtg aaagtgttcg tgcaacctca ttacctccat aactttgttc agtcaacatt 180  
 caatgcatta actgtggaaa aagtttagagg tgcaacgcta gttgtatctg gtgatggctg 240  
 ttatTTTTTca aaggaagcta ttcagattat aactaaaatg tcagcagcaa atggagtaag 300  
 acgtgttttg attggtcaaa atggattgct ttcaactcct gcagtatctg ctgttatacg 360  
 tgaaagagtt ggagctgatg gattcagggc aacaggtgca tttatactga ca 412

<210> 2739  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(396)  
 <223> unsure at all n locations

<400> 2739

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 actacaaata cacatctcat ctcatccgtc tctcactttt aatttttctc tgcaatctga 120  
 accttccgga tttcgttttt ctttgttccg gtagccagcc agccagccat ggtgctcttc 180  
 aatgtttcac gcgttgagac cactcccttc gatggacaga agcctggaac ctctggctctc 240  
 cgcaagaagg tgaaagtatt cgtgcaacct cattacctnc ataactttgt tcagtcaaca 300  
 ttcaatgcat taactgtgga aaaagttaga ggtgcaacgc tagttgtatc tggatgatgg 360  
 cgttatTTTTT caaaggaagc tattcagatt ataact 396

<210> 2740  
 <211> 358



<212> DNA  
 <213> Glycine max  
 <400> 2740  
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 attccttttg cctctcacta caaatacaca tctcatctca tccgtctctc acttttaatt 120  
 tttctctgca atctgaacct tccggatttc gctattcttt gtcccggtag ccagtcagcc 180  
 agccatcgctg ctctacaatg tttcacgcgt tgagaccact cccttcgatg gacagaagcc 240  
 tggaacctct ggtctcctca cgaacgtgac cgtattcgctg caacctcatt acctccataa 300  
 cttcgatcag tcaacattca atgcattaac tgtggaaaaa gttagagggtg caacgcta 358

<210> 2741  
 <211> 251  
 <212> DNA  
 <213> Glycine max  
 <220>  
 <221> unsure  
 <222> (1)..(251)  
 <223> unsure at all n locations  
 <400> 2741

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 tgactattgc tgcaaaacct ggcttgaaat tggaaattcc tgatgggggtg acgattgaga 120  
 ataaggagat caacgacct gcagatatct aaggatgaat gttgtcgaat tgctgagatt 180  
 tgggtccagtg atacatgact gctgaacttt gattnccagg caanacattt agttgnccct 240  
 ttgccccccc c 251

<210> 2742  
 <211> 256  
 <212> DNA  
 <213> Glycine max  
 <400> 2742  
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 tagcaacttc ttgggccgct tcaagtcaat tcccagtatt gttgagcttg acagtctaaa 120  
 agtggctggc aatgtatggt ttggagatgg tgttatcctc aagggaataa tcagtatcgt 180

ggccaatcct ggtgttaagc tggaagttcc cgatggtgct gtcatttcgg ataaggaaat 240  
 taatggccca gaggac 256

<210> 2743  
 <211> 264  
 <212> DNA  
 <213> Glycine max

<400> 2743

ctggcctttt gttctcgtgt caatttctaa atccaccacc acaccctctc ttctattctc 60  
 tattattatt atctccacac ccttcactct ccttcagtct tctctcgaat cttccaccgc 120  
 aatggccacc cctgccgaga aactctccgc tctcaaatacc gccgtcgccg gattgaacga 180  
 aatcagttag aatgagaaga acggattcat cagcctcgtc ggccgctatc tcagtggcga 240  
 acgcagcatg tggaatggag caag 264

<210> 2744  
 <211> 253  
 <212> DNA  
 <213> Glycine max

<400> 2744

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 atttaatggt acccacaacg aaatttaagc ttcgggagat tggaggagac caagataaac 180  
 acttgaagga caatttcaaa ctcatcgata caacaaacat gtgggtgagt ttaagagcca 240  
 tcaagagggt tgt 253

<210> 2745  
 <211> 243  
 <212> DNA  
 <213> Glycine max

<400> 2745

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 tgagaccctc aattccaagt atggaagcag ggttcattg cttcttttca ataaagatga 120  
 cattcatgat agttctctaa aggttttggg gaagtattct aaatcaagtg ttgaagtgca 180

cactttttaa cagggtgaag atcgagagtt gaaatcattg ggtgaatata tagcaaggag 240  
gaa 243

<210> 2746  
<211> 255  
<212> DNA  
<213> Glycine max

<400> 2746

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gttgctcggt acctcagtgg cgaagacagc atgttgagtg gagtaagatc gagacgccta 120  
cggatgaagt agtgggtgcct tatgactctt tggcaccgac tcctgacggg tctttggagg 180  
tgaagaacct cttggacaag cttgtggtgt tgaagctcaa tggaggcttg gggacaacta 240  
tgggttgtag tgccc 255

<210> 2747  
<211> 260  
<212> DNA  
<213> Glycine max

<220>  
<221> unsure  
<222> (1)..(260)  
<223> unsure at all n locations

<400> 2747

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gttgaaatca ttgggtgaat attatagcaa ggaggaagtg catccatttg atgatgttga 120  
tgtgttccgt ttactaatga ctggtggaac ccttgattca ttattatcac agggtaagga 180  
gtatatccta gtgttgaagt cggacaatgt ggcaacagtc cttgatccaa acataactaaa 240  
tcatttgatg ataaatgata 260

<210> 2748  
<211> 282  
<212> DNA  
<213> Glycine max

<220>  
<221> unsure  
<222> (1)..(282)

<223>        unsure at all n locations

<400>        2748

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aatattgaga ttcatacggt taaccagagt caatatactc gtttggttgt tgatgncttt  120
ttgccattcc catccaaggg gcagacaggg agggacgggt ggtaccctcc tggccacgga  180
gacgtcttcc catcattagt gaatagtgga aagcttgatg tgctattatc acagggtaag  240
gagtatgtgt ttgttgccaa ttcagacaac ctggtgctgt ag                          282
```

<210>        2749

<211>        240

<212>        DNA

<213>        Glycine max

<220>

<221>        unsure

<222>        (1)..(240)

<223>        unsure at all n locations

<400>        2749

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attnanogaa atcantgaga atgagaagaa cggattcatc agcctcgteg gccgctatct  120
cagtggcgaa ngcagcatgt ggaatggagn aagatccaga cgctanggac gaatggttgt  180
ncctacgaca ntnggcgcca nctcngnagg tncnnggggn aaatnatgga aanctgtgnt  240
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<210>        2750

<211>        275

<212>        DNA

<213>        Glycine max

<220>

<221>        unsure

<222>        (1)..(275)

<223>        unsure at all n locations

<400>        2750

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tcgctnctt cttctctcga accctnnagc gnaatgacca cccgcaccga gaagctctcc  120
gctctcaaat ccgccgtecgc cggatcgaaac gaaatcagtg agagtgagaa gaacccattc  180
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atcagcctcg tcagccgcta tctcagtggc gaacgcagca tgtggaatgg agcaagatcc 240  
agacgcctac ggacgaagtg gttgtgcctt acgac 275

<210> 2751  
<211> 312  
<212> DNA  
<213> Glycine max

<400> 2751

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gctatagttg acttgatgta cttgactcat tgatgtagag atcttaaate atttgatcca 120  
gaacaagaat gaatactgta tggaggtgac tcccaaaaca ttggctgatg taaaggggtg 180  
cactttgatt tcttacgaag gaaggggttca gcttttgga attgcacaag tcccagatga 240  
acatgtcaat gagttcaagt caatagagaa gttcaaaatt ttcaacacaa atcatagtcg 300  
gtgaacttaa at 312

<210> 2752  
<211> 209  
<212> DNA  
<213> Glycine max

<400> 2752

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gcctacggac gaagtgggtt tgccttacga gactttggcg ccaactcctg aagggttcttc 120  
ggaggtgaag aatctatttg acaagcttgt ggtgttgaag ctaaattggag gcttgggaac 180  
aactatgggt tgcactggtc ctaaattctg 209

<210> 2753  
<211> 277  
<212> DNA  
<213> Glycine max

<400> 2753

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attcatcagc ctcgctggcc gctatctcag tggcgaacgc agcatgtgga atggagcaag 120  
atccagacgc ctacggacga agtggttgtg ccttacgaca ctttggcgcc aactcctgaa 180

ggttcttcgg aggtgaagaa tctattggac aagcttgtgg tgttgaagct aaatggaggc 240  
 ttgggaacaa ctatgggttg cactggctct aaatctg 277

<210> 2754  
 <211> 245  
 <212> DNA  
 <213> Glycine max  
 <400> 2754

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 actggagcaa gatccagacg actacggacg acagtgggtg tgccttacga cactttggcg 120  
 ccaactcctg aaggttcttc ggaggtgaag aatctattgg acaagcttgt ggtgttgaag 180  
 ctaaattggag gcttgggaac aactatgggt tgcactggct ctaaattctgt aattgaagtt 240  
 cgtga 245

<210> 2755  
 <211> 270  
 <212> DNA  
 <213> Glycine max  
 <400> 2755

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 attgaacgaa atcagtgaga ctgagaagaa cggattcatc agcctcgctc gccgctatct 120  
 cagtggcgaa cgcagcatgt ggaatggagc aagatccaga cgcctacgga cgaagtgggt 180  
 gtgccttacg acactttggc gccaaactcct gaaggttctt cggaggtgaa gaatctattg 240  
 gacaagcttg tgggtgttgaa gctaaatgga 270

<210> 2756  
 <211> 219  
 <212> DNA  
 <213> Glycine max  
 <400> 2756

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 cagtgagaat gagaagaacg gattcatcag cctcgtcggc cgctatctca gtggcgaacg 120  
 cagcatgtgg aatggagcaa catccagacg cctacggacg aagtgggtgt gccttacgac 180

actttggcgc caactcctga aggttcttcg gaggtgaag 219

<210> 2757  
 <211> 217  
 <212> DNA  
 <213> Glycine max

<400> 2757

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 ggcgaacgca gcatgtggaa tggttcaaga tccagacgcc tacggacgaa gtggttgtgc 180  
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<210> 2758  
 <211> 286  
 <212> DNA  
 <213> Glycine max

<400> 2758

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 aatggccacc gctgccgaga aactctccgc tctcaaatac gccgtcgccg gattgaacga 180  
 aatcagttag aatgagaaga acgattcat cagcctcgtc gccgctatc tcagtggcga 240  
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<210> 2759  
 <211> 262  
 <212> DNA  
 <213> Glycine max

<400> 2759

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 <213> Glycine max  
  
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 <211> 259  
 <212> DNA  
 <213> Glycine max  
  
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 aatggccacc gatgccgaga aactctccgc tctcaaatcc gccgtcgccg gattgaacga 180  
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<210> 2762  
 <211> 243  
 <212> DNA  
 <213> Glycine max  
  
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<210> 2763  
 <211> 254  
 <212> DNA  
 <213> Glycine max  
  
 <400> 2763  
  
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 aatggccacc cctgccgaga aactctccgc tctcaaattcc gccgtcgccg gattgaacga 180  
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<210> 2764  
 <211> 268  
 <212> DNA  
 <213> Glycine max  
  
 <400> 2764  
  
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 aatggccacc cctgccgaga aactctccgc tctcaaattcc gccgtcgccg gattgaacga 180  
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<210> 2765  
 <211> 243  
 <212> DNA  
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 <400> 2765  
  
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 caccgcaatg gccaccgctg ccgagaaact ctccgctctc aaatccgccg tcgccggatt 180  
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 tgg 243

<210> 2766  
 <211> 254  
 <212> DNA  
 <213> Glycine max

<400> 2766

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 accgcaatgg ccacctctgc cgagaaactc tccgctctca aatccgccgt cgccggattg 180  
 aacgaaatca gtgagaatga gaagaacgga ttcattcagcc tcgtcggccg ctatctcagt 240  
 ggccaacgca gcat 254

<210> 2767  
 <211> 235  
 <212> DNA  
 <213> Glycine max

<400> 2767

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 ggccacctct gccgagaaac tctccgctct caaatccgcc gtcgccggat tgaacgaaat 180  
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<210> 2768  
 <211> 262  
 <212> DNA  
 <213> Glycine max

<400> 2768

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 ctctccaacc tcaaactctc cgtcgctgca ttgagccaaa tcagtgagaa tgagaagaat 180  
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<210> 2769

<211> 255  
 <212> DNA  
 <213> Glycine max  
  
 <400> 2769  
  
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<210> 2770  
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 <212> DNA  
 <213> Glycine max  
  
 <400> 2770  
  
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 cctcaaatac tccgtcgctg cattgagcca aatcagtgag aatgagaaga atggattcac 180  
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<210> 2771  
 <211> 309  
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 <213> Glycine max  
  
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 aaaacattgg ctgatgtaaa ggggtggcact ttgatttctt acgaaggaag ggttcagctt 120  
 ttggaaattg cacaagtccc agatgaacat gtcaatgagt tcaagtcaat agagaagtgc 180  
 aaaattttca acacaaataa tttgtgggtg aacttaaagt cagttaaaag gcttggtgaa 240  
 gctgatgctc ttaagatgga aattattccc aatccaaagg aagttgatgg aataaaagtt 300  
 cttcagctg 309

<210> 2772  
 <211> 297  
 <212> DNA  
 <213> Glycine max  
  
 <400> 2772  
  
 atgcactatt gtcacagggt aaagagtacg tgtttggtgc caattcggat aacttgggag 60  
 ctatagttga cttgaaaatc ttgaatcatt tgatccagaa caagaatgaa tactgtatgg 120  
 aggtgactcc caaaacattg gctgatgtaa agggggggcac tttgatttct tacgaaggaa 180  
 gggttcagct cctggaaatt gcacaagtcc cagatgaaca tgtcaatgag ttcaagtcaa 240  
 tagagaagtt caaaattttc aacacaaata atttgtgggt gaacttaaac gcattaa 297

<210> 2773  
 <211> 276  
 <212> DNA  
 <213> Glycine max  
  
 <400> 2773  
  
 tgtgaaaggt ggcactctga tttcttatga aggaagggtt cagctcctgg aaattgcccc 60  
 agtaccagat gaacatgtca gtgaatttaa gtctatagag aaattcaaaa ttttcaacac 120  
 aaataatttg tgggtaaact tgaaagcaat taaaaggctt gttgaagctg atgctctgaa 180  
 gatggaaatt attcccaatc caaaggaagt cgatggagta aaagttcttc aattggaaac 240  
 tgcagctggt gcagcaataa gggtctttga caaagc 276

<210> 2774  
 <211> 276  
 <212> DNA  
 <213> Glycine max  
  
 <400> 2774  
  
 ttcggataac ttgggagcta tagttgactt gaaaatcttg aatcatttga tccagaacaa 60  
 gaatgaatac tgtatggagg tgactcccaa aacattgggt gatgtaaagg gtggcacttt 120  
 gatttcttac gaaggaaggg ttcagctcct ggaaattgca caagtccccg atgaacatgt 180  
 caatgagttc aagtcaatag agaagttcaa aattttcaac acaaataatt tgtgggtgaa 240  
 cttaaacgca gttaaaaggc ttgttgaagc tgatgc 276

<210> 2775  
 <211> 266  
 <212> DNA  
 <213> Glycine max  
  
 <400> 2775  
  
 gtggcacttt gatttcttac gaaggaagg ttcagctcct ggaaattgca caagtccccg 60  
 atgaacatgt caatgagttc aagtcaatag agaagttcaa aattttcaac acaaataatt 120  
 tgtgggtgaa cttaaacgca gttaaaaggc ttgttgaagc tgatgctctt aagatggaaa 180  
 ttattcccaa tccaaaggaa gttgacggaa taaaagttct tcagctggaa actgcagctg 240  
 gtgctgcaat aaggttcttt gacaag 266

<210> 2776  
 <211> 251  
 <212> DNA  
 <213> Glycine max  
  
 <400> 2776  
  
 gtggcacttt gatttcttac gaaggaagg ttcagctcct ggaaattgca caagtccccg 60  
 atgaacatgt caatgagttc aagtcaatag agaagttcaa aattttcaac acaaataatt 120  
 tgtgggtgaa cttaaacgca gttaaaaggc ttgttgaagc tgatgctctt aagatggaaa 180  
 ttattcccaa tccaaaggaa gttgacggaa taaaagttct tcagctggaa actgcagctg 240  
 gtgctgcaat a 251

<210> 2777  
 <211> 253  
 <212> DNA  
 <213> Glycine max  
  
 <400> 2777  
  
 cttttggaaa ttgcacaagt cccagatgaa catgtcaatg agttcaagtc aatagagaag 60  
 ttcaaaatth tcaacacaaa taatttgtgg gtgaacttaa atgcagttaa aaggcttggt 120  
 gaagctgatg ctcttaagat ggaaattatt cccaatccta aggaagttga tggaataaaa 180  
 gttcttcagc tggaaactgc agctgggtgct gcaataaggt tctttgacaa ggctattggg 240  
 attaatgttc ctc 253

<210> 2778  
 <211> 249  
 <212> DNA  
 <213> Glycine max  
  
 <400> 2778  
  
 ggggtggcact ttgatttctt acgaaggaag ggttcagctc ctggaaattg cacaagtccc 60  
 cgatgaacat gtcaatgagt tcaagtcaat agagaagttc aaaattttca acacaaataa 120  
 tttgtgggtg aacttaaacg cagttaaaag gcttggtgaa gctgatgctc ttaagatgga 180  
 aattattccc aatccaaagg aagttgacgg aataaaagtt cttcagctgg aaactgcagc 240  
 tgggtgctgc 249

<210> 2779  
 <211> 275  
 <212> DNA  
 <213> Glycine max  
  
 <400> 2779  
  
 acctgcgaga agacgacaga agggcccgat gaacatgtca atgagttcaa gtcaatagag 60  
 aagttcaaaa ttttcaacac aaataatttg tgggtgaact taaacgcagt taaaaggctt 120  
 gttgaagctg atgctcttaa gatggaaatt attcccaatc caaaggaagt tgacggaata 180  
 aaagttcttc agctggaaac tgcagctggg gctgcaataa gggtctttga cagggctatt 240  
 gggattaatg ttctcgcac acgattcctt cctgt 275

<210> 2780  
 <211> 276  
 <212> DNA  
 <213> Glycine max  
  
 <220>  
 <221> unsure  
 <222> (1)..(276)  
 <223> unsure at all n locations  
  
 <400> 2780  
  
 ctttgacaag gctattggga ttaatgttcc tcgatcacga ttcntcctg tgaaggcaac 60  
 ttcagatttg cttcttgtcc agtctgacct ctacactttg gaagacggat ttgtcattcg 120  
 gaacaaagct agggaaaatc ctgaaaaccc ttctattgaa ctgggaccag aatttaagaa 180

ggtttagcaac ttcttgggcc gtttcaagtc aattcctagt atcgttgagc ttgacagtct 240  
 aaaagtggct ggtgatgtat ggtttggagc tgggtg 276

<210> 2781  
 <211> 279  
 <212> DNA  
 <213> Glycine max

<400> 2781

ccaatccaaa ggaagttgac ggaataaaaag ttcttcagct ggaaactgca gctggtgctg 60  
 caataagggtt ctttgacaag gctattggga ttaatgttcc tcgatcacga ttccttcctg 120  
 tgaaggcaac ttcagattgc ttcttgtcca gtctgacctc tacactttgg aagacggatt 180  
 tgtcattcgg aacaaagcta gggaaaatcc tgaaaaccct tctattgaac tgggaccaga 240  
 atttaagaag gttagcaact tcttgggccg cttcaagtc 279

<210> 2782  
 <211> 273  
 <212> DNA  
 <213> Glycine max

<400> 2782

tacggctgcg agaagacgac agaagggagg gtaaagagta tgtgtttggt gccaatcgg 60  
 ataacttggg agctatagtt gacttgaaaa tcttgaatca tttgatccag aacaagaatg 120  
 aatactgtat ggaggtgact cccaaaacat tggctgatgt aaaggggtggc actttgattt 180  
 cttacgaagg aagggttcag ctcttgaaa ttgcacaagt ccccgatgaa catgtcaatg 240  
 agttcaagtc aatagagaag ttcaaaattt tca 273

<210> 2783  
 <211> 277  
 <212> DNA  
 <213> Glycine max

<400> 2783

tacggctgcg agaagacgac agaagggagg gtaaagagta tgtgtttggt gccaatcgg 60  
 ataacttggg agctatagtt gacttgaaaa tcttgaatca tttgatccag aacaagaatg 120  
 aatactgtat ggaggtgact cccaaaacat tggctgatgt aaaggggtggc actttgattt 180

cttacgaagg aagggttcag ctcttggaat ttgcataagt ccccgatgaa catgtcaatg 240  
agttcaagtc aatagagaag ttcaaaattt tcaacac 277

<210> 2784  
<211> 270  
<212> DNA  
<213> Glycine max

<400> 2784

caggagctga acccttcctt cgtaagaaat caaagtgcc aaccttacat cagccaatga 60  
gttcaagtca atagagaagt tcaaaatttt caacacaaat aatttggtggg tgaacttaaa 120  
cgcagttaaa aggcttggtg aagctgatgc tcttaagatg gaaattattc ccaatccaaa 180  
ggaagttgac ggaataaaaag ttcttcagct ggaaactgca gctgggtgctg caataagggtt 240  
ctttgacaag gctatgggat taatgttcct 270

<210> 2785  
<211> 292  
<212> DNA  
<213> Glycine max

<220>  
<221> unsure  
<222> (1)..(292)  
<223> unsure at all n locations

<400> 2785

cttaaacgca gttanaaagg cttgttgaag ctgatgctct taagatggaa attattccca 60  
atccaaagga agttgacgga ataaaagttc ttcagctgga aactgcagct ggtgctgcaa 120  
taaggttcctt tgacaaggct attgggatta atgttcctcg atcacgattc cttcctgtga 180  
aggcaacttc agatttgctt cttgtccagt ctgacctcta cactttggaa gacggatttg 240  
tcatcggaac aaagctaggg aaaatcctga aaaccttcta tgaactggga ca 292

<210> 2786  
<211> 191  
<212> DNA  
<213> Glycine max

<400> 2786



gtaaaggggtg gcactttgat ttcttacgaa ggaaggggttc agtccttgga aattgcaaag 60  
tccccgatga acatgtcaat gagttcaagt caatagagaa gttcaaaatt ttcaacacaa 120  
ataatttgtg ggtgaactta aacgcagtta aaaggcttgt tgaagctgat gctcttaaga 180  
tggaattat t 191

<210> 2787  
<211> 130  
<212> DNA  
<213> Glycine max

<400> 2787

attcggataa cttgggagct atagttgact ggaaaatctt gaatcatttg atccagaaca 60  
agaatgaata ctgtatggag gtgactccca aaacattggc tgatgtaaag ggtggcactt 120  
tgacttctta 130

<210> 2788  
<211> 253  
<212> DNA  
<213> Glycine max

<400> 2788

gacggatttg tcattcggaa caaagctagg gaaaatcctg aaaacccttc tattgaactg 60  
ggaccagaat ttaagaaggt tagcaacttc ttgagtcgct acatcacctg tcctagtaac 120  
ggacatcatg cttccctaaa agttgctaata catctatagt tctgagcctc gttcatcctc 180  
aaggggacca tcatcattgt atcaaaaccg ggtgttaagc tataagttcc cgacggtgtt 240  
gccattgtag aca 253

<210> 2789  
<211> 236  
<212> DNA  
<213> Glycine max

<400> 2789

ctttttgccca ttcccatcca aggggcagac aggcaggac gggtagtac ctctggcca 60  
cggagacgtc ttcccatcat tagtgaatag tggaaagctt gatgtgctat tatcacaggg 120  
taaggagtat gtgtttgttg ccaattcaga caacctgggt gctgtagttg acttgaaaat 180

cttaaatacat ttgattgagc acaagaatga atactgtatg gaggtcactc ccaaga 236

<210> 2790  
 <211> 253  
 <212> DNA  
 <213> Glycine max

<400> 2790

acaggcacgg acgggtggta ccctcctggc cacggagacg tcttcccatc attagtgaat 60  
 agtggaagc ttgatgtgct attatcacag ggtaaggagt atgtgtttgt tgccaattca 120  
 gacaacctgg gtgctgtagt tgacttgaaa atcttaaatac atttgattga gcacaagaat 180  
 gaatactgta tggaggtcac tccaagaca ttggctgacg tgaaaggtgg cactctgatt 240  
 tcttatgaag gaa 253

<210> 2791  
 <211> 283  
 <212> DNA  
 <213> Glycine max

<400> 2791

cgacaagctt gtggtgttga agctaaatgg aggcttgggc acaactatgg gttgcactgg 60  
 tcctaaatct gtaattgaag ttcgtgatgg gttgacattt ctagatttaa ttgtgatcca 120  
 gattgagaat ctcaattcca aatatggaag caatgttcct ttgcttttga tgaattcatt 180  
 caacactcat gatgacactc aaaagattgt tgaaaaatac caaaactcca atattgagat 240  
 tcataactttt aaccagagcc agtatcctcg attggttgct gag 283

<210> 2792  
 <211> 306  
 <212> DNA  
 <213> Glycine max

<220>  
 <221> unsure  
 <222> (1)..(306)  
 <223> unsure at all n locations

<400> 2792

aagctaaatg gaggcttggg cacaactatg ggttgactg gtcctaaatc tgtaattgaa 60  
 gttcgtgatg ggttgacatt tctagattta attgtgatcc agattgagaa tctcaattcc 120

aaatatggaa gcaatgttcc tttgcttttg atgaattcat tcaacactca tgatgacact 180  
 caaaagattg ttgaaaaata ccaaaactcc aatattgaga ttcatncttt taaccagagc 240  
 cagtatcctc gattggttgc tgagggactt tttgccattg ccttccaaag ggcatactga 300  
 caagga 306

<210> 2793  
 <211> 263  
 <212> DNA  
 <213> Glycine max  
 <400> 2793

gacaaggatg gatggtaccc tcctggccat ggagatgtct ttccatcatt attgaacagt 60  
 ggcaaacttg atgcactatt gtcacagggt aaagagtatg tatttggtgc caattcagat 120  
 aacttgggag ctatagttga cttgaaaatc ttaaatacatt tgatccagaa caagaatgaa 180  
 tactgtatgg aggtgactcc caaaacattg gctgatgtaa aggggtggcac tttgatttct 240  
 tacgaaggaa gggttcagct ttt 263

<210> 2794  
 <211> 274  
 <212> DNA  
 <213> Glycine max  
 <400> 2794

cttttaacca gagccagtat cctcgattgg ttgctgagga ctttttgcca ttgccttcca 60  
 aagggcatac tgacaaggat ggatggtacc ctctggcca tggagatgtc tttccatcat 120  
 tattgaacag tggcaaactt atgcactatt gtcacagggt aaagagtatg tatttggtgc 180  
 caattcagat aacttgggag ctatagttga cttgaaaatc ttaaatacatt gatccagaac 240  
 aagaatgaat actgtatgga ggtgactccc aaaa 274

<210> 2795  
 <211> 273  
 <212> DNA  
 <213> Glycine max  
 <400> 2795

acgctgcgag aagacgacag aaggggattt aattgtcatc caaattgaga atcccaattc 60

caaatatgga agcaatgttc ctttgctttt gatgaattca ttcaaacactc atgatgacac 120  
tcaaaagatt gttgaaaaat accaaaactc aaatattgag attcatactt ttaaccagag 180  
ccagtatcct cgattgggtg ttgaggactc tttgccattg ctttccaaag ggcatactga 240  
caaggatgga tgggtaccctc ctggccatgg tga 273

<210> 2796  
<211> 254  
<212> DNA  
<213> Glycine max

<220>  
<221> unsure  
<222> (1)..(254)  
<223> unsure at all n locations

<400> 2796

aattgaagtt cgtgatgggt tgacatttct agattttaatt gtgatccaga ttgagaatct 60  
caattccaaa tatggaagca atgttccttt gcttttgatg aattcattca acactcatga 120  
tgacactcaa aagattgttg aaaaatacca aaactccaat attgagattc atacttttaa 180  
ccagagccag tatcctcgat tggttgctga ggactttttg ccattgcctt ccaaagggca 240  
tactgacaag natg 254

<210> 2797  
<211> 274  
<212> DNA  
<213> Glycine max

<400> 2797

ccaaaactcc aatattgaga ttcatacttt taaccagagc cagtatcctc gattgggtgc 60  
tgaggacttt ttgccattgc cttccaaagg gcatactgac aaggatggat ggtaccctcc 120  
tggccatgga gatgtctttc cacattattg aacagtggca aacttgatgc actattgtca 180  
cagggtaaag agtatgtatt tgttgccaat tcagataact tgggagctat agttgacttg 240  
aaaatcttaa atcatttgat ccagaacaag aatg 274

<210> 2798  
<211> 243  
<212> DNA

<213> Glycine max

<400> 2798

ccagattgag aatctcaatt ccaaatatgg aagcaatggt cctttgcttc tgatgaattc 60  
attcaacact catgatgaca ctcaaaagat tgttgaaaaa taccaaaact ccaatattga 120  
gattcatact ttaaccaga gccagtatcc tcgattgggt gctgaggact ttttgccatt 180  
gccttccaaa gggcatactg acaaggatgg atggtaccct cctggccatg gagatgtcct 240  
tcc 243

<210> 2799

<211> 253

<212> DNA

<213> Glycine max

<400> 2799

caagggcata ctgacaagga tggatgggtac cctcctggcc atggtgatgt cttcccatca 60  
ttattgaaca gtggcaaact tgatgcacta ttgtcacagg gtaaagagta tgtgtttgtt 120  
gccaatcggg ttaacttggg agctatagtt gacttgaaaa tcttgaatca tttgatccag 180  
aacaagaatg aatactgtat ggaggtgact cccaaaacat tggctgatgt aaaggggtggc 240  
actttgattt ctt 253

<210> 2800

<211> 246

<212> DNA

<213> Glycine max

<400> 2800

caaaagattg ttgaaaaata ccaaaactca aatattgaga ttcatacttt taaccagagc 60  
cagtatcctc gattggttgt tgaggacttt ttgccattgc cttccaaagg gcatactgac 120  
aaggatggat ggtaccctcc tggccatggt gatgtcttcc catcattatt gaacagtggc 180  
aaacttgatg cactattgtc acatggtaaa gagtatgtgt ttgttgccaa ttcggataac 240  
ttggga 246

<210> 2801

<211> 265

<212> DNA

<213> Glycine max

<400> 2801

cgcacgtacg cgtacgcggc attcggctcg agcaagttgt ggtggtgaag ctaaattggag 60  
gcttggggaac aactatgggt tgcactggtc ctaaattctgt aattgaagtt cgtgatgggt 120  
tgacatttct agatttaatt gtcattccaaa ttgagaatct caattccaaa tatggaagca 180  
atgttccttt gcttttgatg aattcattca acactcatga tgacactcaa aagattgttg 240  
aaaaatacca aaactcaaatt attga 265

<210> 2802

<211> 261

<212> DNA

<213> Glycine max

<400> 2802

atctagaggt tgacatttct agatttaatt gtgatccaga ttgagaatct caattccaaa 60  
tatggaagca atgttccttt gcttttgatg aattcattca acactcatga tgacactcaa 120  
aagattgttg aaaaatacca aaactccaat attgagattc atacttttaa ccagagccag 180  
tatactcgat tggttgctga ggactttttg ccattgcctt acaaagggga tactgactcc 240  
gatggctggg accctcctgg c 261

<210> 2803

<211> 195

<212> DNA

<213> Glycine max

<400> 2803

gatgaattca ttcaaacactc atgatgacac tcaggagatt gttgaaaaat accagaactc 60  
aaatattgag attcatactt ttaaccagag ccagtatcct cgattgggtg ttgaggactt 120  
tttgccattg ccttccaaag ggcatactga caaggatgga tggtagcctc ctggccatgg 180  
tgatgtcttc ccatac 195

<210> 2804

<211> 265

<212> DNA

<213> Glycine max

<400> 2804

gttgaagcta aatggaggct tgggcacaac tatggggtgc actggtccta aatctgtaat 60  
tgaagttcgt gatgggttga catttctaga ttgaatggtg atccagattg agaatctcaa 120  
ttccaaatat ggaagcaagt tcctttgctt ttgatgaatt cattcaacac tcatgatgac 180  
actcaaaaga ttgttgaaaa ataccaaaac tccaatattg agattcatac ttttaaccag 240  
agccagtatc ctcgattggt tgctg 265

<210> 2805

<211> 262

<212> DNA

<213> Glycine max

<400> 2805

gcaatgtatg gtttggagct ggtgttatcc tcaagggaaa aatcagtatc gtggccaatc 60  
ctggtgttaa gctggaagtt cccgatggtg ctgtcatttc ggataaggaa attaatggcc 120  
cagaggacct cctgtgagga agcccgtga gtttagaagt atcagactgt atactatctt 180  
tatggtctca tgttttttcc aattattact actcccaagt ttgatgggca aagaaaataa 240  
gtcccttttt gtttgtcttc tg 262

<210> 2806

<211> 249

<212> DNA

<213> Glycine max

<400> 2806

gctggtgtta tcctcaaggg aaaaatcagt atcgtggcca atcctggtgt taagctggaa 60  
gttccccgatg gtgctgtcat ttoggataag gaaattaatg gccagagga cctcctgtga 120  
ggaagccccgc tgagttttaga agtatcagac tgtatactat ctttatgggc tcatgttttt 180  
tccaattatt actactccca agtttgatgg gcaaagaaaa taagtccttt tttgtttgtc 240  
ttctgattc 249

<210> 2807

<211> 183

<212> DNA

<213> Glycine max

<400> 2807

cagaatttaa gaaggtttagc aatttcttga gccggttcaa gtcaatcccc atattgttga 60

gcttgacagt ctaaaagtgg caggcgatgt atggtttggg gctggtgtaa tccttaaggg 120

aaaagcaagt attcttgcaa aaccgggtgt gaagctggaa atacctgacg gagctgtgat 180

cgc 183

<210> 2808

<211> 184

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)..(184)

<223> unsure at all n locations

<400> 2808

aggggnnnntt tgattgatat ggaatgctac actcaagcat agctatgaca tcccatgctc 60

cctaacctaa gcatttggtc cgagccttcc tttaaaccta agccgtttagc ctgaatgggt 120

ggtgaagacc ttttggcaat ggccttccaa aggccttccct gccaaagggtg gttggtacct 180

tcct 184

<210> 2809

<211> 389

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)..(389)

<223> unsure at all n locations

<400> 2809

accacgcgtc cgtttcaaac tcatcgatac aacaaacatg tgggtgagtt taagagccat 60

caagaggttt gttgacactg ttgaagtaag gcagaagaag ccttcatttt caaaggacac 120

agcagctgga ccagcaataa agttctttga taatgtatgt ggtgtctccg tgcccgaatc 180

tcgctttctt cccttggtatg caacatcaga tctattactt cttcagtcag atctatacac 240

ttgtagagaa ggtgttttaa ctcgaaatcc agctagaact aaccctttaa atcctgtgat 300



agacttggga cctgaatttg aaaagtttgg tgactttcan agtcgcttca gatccattcc 360  
aagcatcatt gaggttggac agtttgatg 389

<210> 2810  
<211> 411  
<212> DNA  
<213> Glycine max

<400> 2810

tcgagcttct tcttctctcg aatcttccac cgcaatgacc accgccaccg agaagctctc 60  
cgctctcaaa tccgccgtcg ccggattgaa cgaaatcagt gagagtgaga agaacggatt 120  
catcagcctc gtcagccgct atctcagtgg cgaagcgcag catgtggaat ggagcaagat 180  
ccagacgcct acggacgaag tggttgtgcc ttacgacact ttggcgccaa ctcttgatgg 240  
ttcttcggac gtgaagaatc tattggacaa gcttgtggtg ttgaagctaa atggaggctt 300  
gggcacaact atgggttgca ctggtcctaa atctgtaatt gaagttcgtg atgggttgac 360  
atttctagat ttaattgtga tccagattga gaatctcaat tccaaatatg g 411

<210> 2811  
<211> 358  
<212> DNA  
<213> Glycine max

<400> 2811

ggcactttga tttcttacga aggaagggtt cagcttttgg aaattgcaca agtcccagat 60  
gaacatgtca atgagttcaa gtcaatagag aagttcaaaa ttttcaacac aaataatttg 120  
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